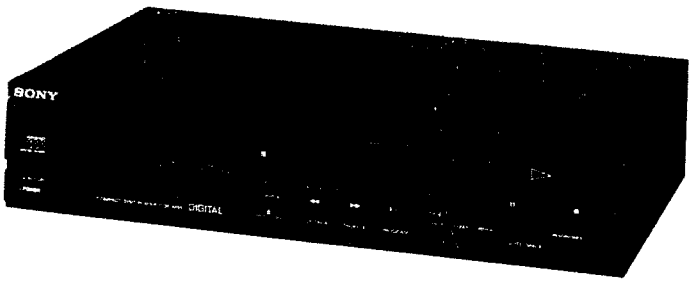
CDP-M55

SERVICE MANUAL

AEP Model
UK Model



CDP-M45

SPECIFICATIONS

Compact disc player

System	Compact disc digital audio system
Laser	Semiconductor laser (λ = 780nm)
Emission duration	Continuous
Laser output	Max. 0.4 mW This output is the value measured at a distance of about 1.6 mm from the objective lens surface on the Optical Pick-up Block.
Frequency response	2 Hz – 20 kHz (±0.5 dB)
Signal to noise ratio	More than 100 dB
Dynamic range	More than 88 dB
Harmonic distortion	Less than 0.05% (1kHz)
Wow and flutter	Below measurable limit
Outputs	LINE OUT (phono jacks) Output level 2 V (at 50 kilohms) Load impedance over 10 kilohms
Channel separation	More than 95 dB (1kHz)

General

Power requirements	UK model: 240 V AC, 50 Hz AEP model: 220 V AC, 50 Hz
Power consumption	10 W
Dimensions (approx.) (w/h/d)	355 x 80 x 275 mm (14 x 3¼ x 10⅞ inches) including projecting parts and controls
Weight (approx., net)	3.0 kg (6 lbs 10 oz)

Supplied accessories

AC power cord	1
Audio signal connecting cord	1 (2 phono plugs – 2 phono plugs)

Remote commander RM-D250

Remote control system
Infrared control
Power requirements
3V DC with two R6 (size AA) batteries
Dimensions 61x20x150 mm(w/h/d)
($2^{1}/_{2}$x$^{13}/_{16}$x6 inches)
Weight 110 g (4 oz)
including batteries
Supplied accessory
Sony SUM-3 (NS) batteries (2)

MICROFILM

COMPACT DISC PLAYER

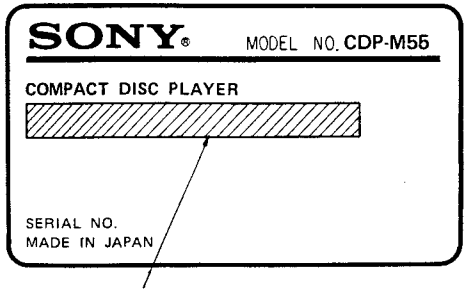
SONY®

AUD

SERVICING NOTES

MODEL IDENTIFICATION

– Specifications Labels –



- AEP model: AC: 220 V ~ 50/60 Hz 10 W
- UK model: AC: 240 V ~ 50/60 Hz 10 W

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.

During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

ADVARSEL!!

Under service må øjnene ikke komme nær objektiv-linsen på den optiske pick-up enhed. I tilfælde af at det er nødvendigt at kontrollere udsendelsen af laserlys, skal det ske i en afstand af mere end 25 cm fra den optiske pick-up.

CLASS 1
LASER PRODUCT

This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.

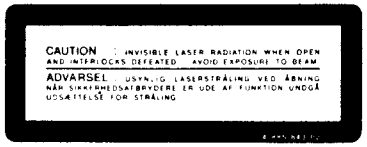
WARNING !!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION, BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 25 cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.

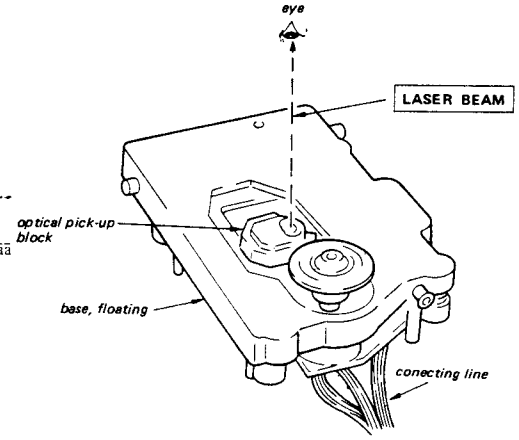
LASER ADVARSEL MÆRKNING

Følgende mærkning findes indvendig i apparatet:

1. Advarsel Mærkning


CAUTION : INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM
ADVARSEL : USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION UNDGÅ UDSÆTTELSE FOR STRÅLING

VAROITUS: Laite sisältää, laserdiodin, joka lähettää (näkymätöntä) silmille vaarallista lasersateilyä.



CDP-M55

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

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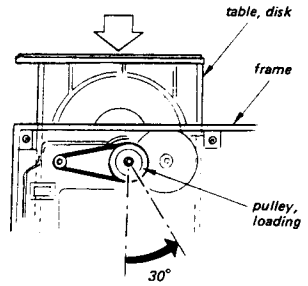
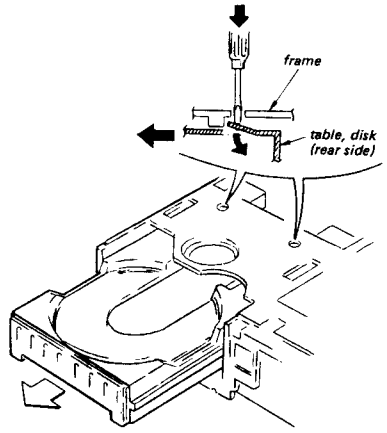
NOTES ON REPAIR

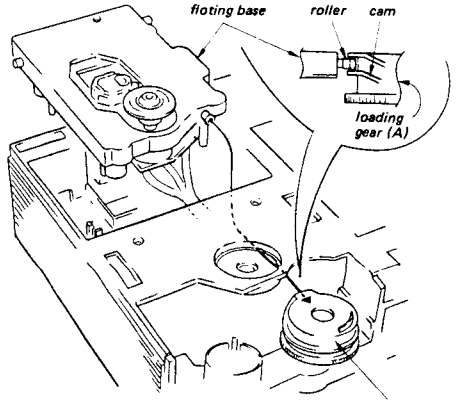
- When removing the disk-table, put the small screwdriver into the hole.
  Pull off the disk-table toward you while pushing the screwdriver. See figure (A).
- When re-assembling the disk-table, rotate the loading pulley by 30-degree in the direction of the arrow by finger, and put the table slowly. See figure (B).
- When re-assembling the floating base, set it so that the floating-base roller is engaged with the cam of the loading gear (A). See figure (C).



(B)



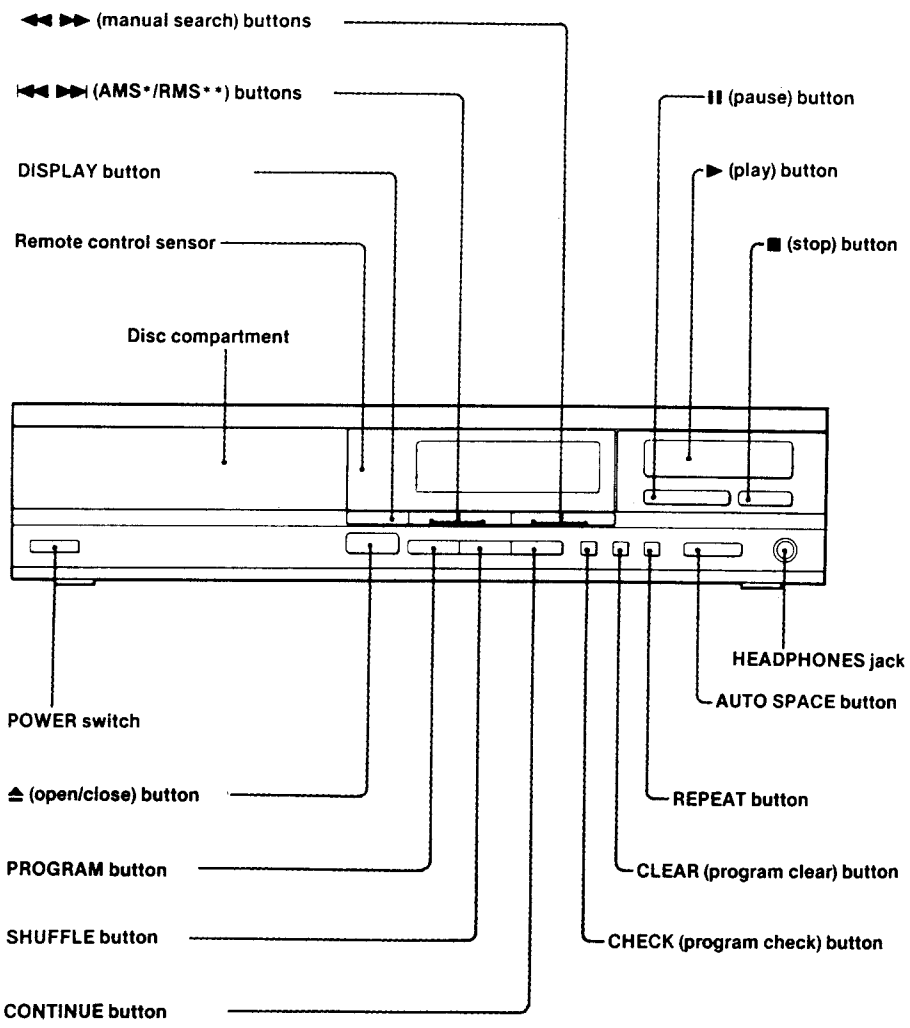
(A)



(C)

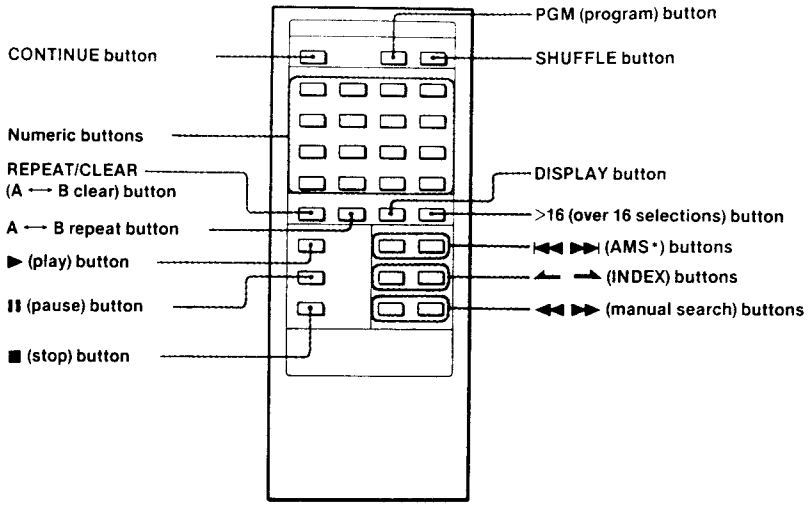
LOCATION AND FUNCTION OF CONTROLS

Front panel



* AMS is an abbreviation of Automatic Music Sensor.
** RMS is an abbreviation of Random Music Sensor.

Remote commander



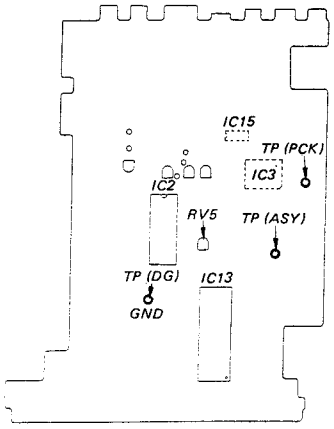
SECTION 1
ELECTRICAL ADJUSTMENTS

1. Perform adjustments in the order given.
2. Use YEDS-18 (Part No. 3-702-101-01) disc unless otherwise indicated.
3. Use the oscilloscope with more than 10 MΩ impedance.

RF PLL Free-run Frequency Check

1. Ground both test points TP (ASY).
2. Press OPEN/CLOSE button and open the disk holder.
3. Check for 4.3218 MHz at test point TP (PCK) using a frequency counter. If not, adjust RV5.

Adjustment Location: main board

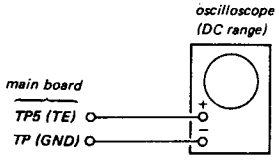


– Component Side –

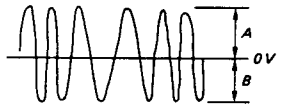
E-F Balance Adjustment

This adjustment should be made when replacing TOP (T-type Optical Pick-up).

Procedure:

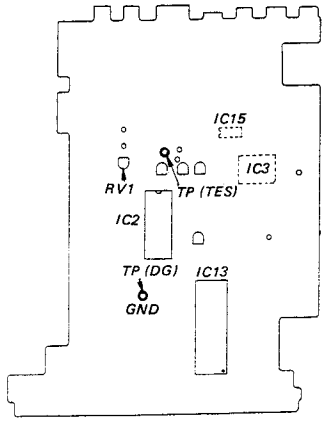


1. Connect oscilloscope to test point TP (TES) and ground.
2. Turn POWER switch on.
3. Put disc (YEDS-18) in and press ▷ button.
4. Press ◀◀ FF or ▶▶ REW botton.
5. Adjust RV1 for a vertically-symmetrical waveform as shown below. (A = B)



VOLT/DIV: 1 V
TIME/DIV: 1 ms

Adjustment Location: main board

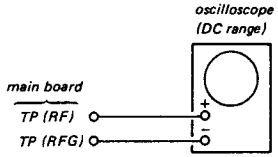


– Component Side –

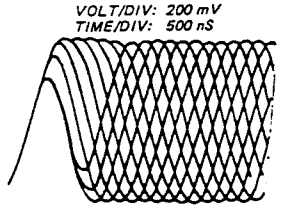
Focus Bias Adjustment

This adjustment should be made when replacing TOP (T-type Optical Pick-up).

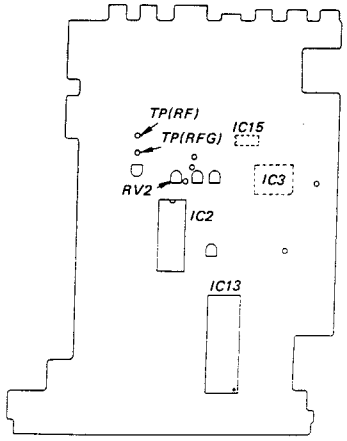
Procedure:



1. Connect oscilloscope to test points TP (RF) and TP (RFG).
2. Turn POWER switch on.
3. Put disc (YEDS-18) in and press button.
4. Adjust RV2 for an optimum waveform eye pattern or so that the peak is maximum. Optimum eye pattern means that shape "◇" can be clearly distinguished at the center of the waveform.



Adjustment Location: main board



– Component Side –

REFERENCE

Focus/Tracking Gain Adjustment

A frequency response analyzer is necessary in order to perform this adjustment exactly.

However, this gain has a margin, so even if it is slightly off, there is no problem. Therefore, do not perform this adjustment.

Focus/tracking gain determines the pick-up follow-up (vertical and horizontal) relative to mechanical noise and mechanical shock when the 2-axis device operate.

However, as these reciprocate, the adjustment is at the point where both are satisfied.

- When gain is raised, the noise when the 2-axis device operates increases.
- When gain is lowered, it is more susceptible to mechanical shock and skipping occurs more easily.
- When gain adjustment is off, the symptoms below appear.

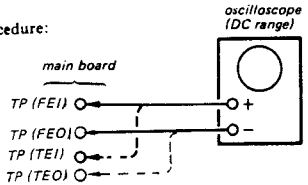
Symptoms \ Gain	Focus	Tracking
• The time until music starts becomes longer for STOP →▷PLAY or automatic selection (⏮ ⏭buttons pressed. (Normally takes about 2 seconds.)	low	low or high
• Music does not start and disc continues to rotate for STOP→▷PLAY or automatic selection (⏮ ⏭ buttons pressed.)	–	low
• Disc table opens shortly after STOP→▷PLAY.	low or high	–
• Sound is interrupted during PLAY. Or time counter display stops progressing.	–	low
• More poise during 2-axis device operation.	high	high

The following is a simple adjustment method.

– Simple Adjustment –

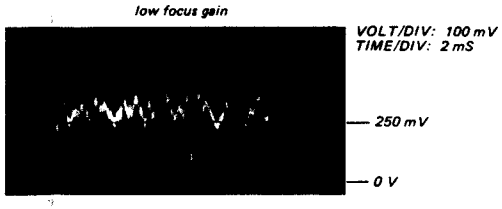
Note: Since exact adjustment cannot be performed, remember the positions of the controls before performing the adjustment. If the positions after the simple adjustment are only a little different, return the controls to the original position.

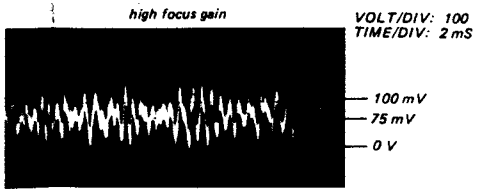
Procedure:



1. Keep the set horizontal.
   (If the set is not horizontal, this adjustment cannot be performed due to the gravity against the 2 axis device.)
2. Insert disc (YEDS-18) and press PLAY button.
3. Connect oscilloscope to main amp board TP (FEI), TP (FEO).
4. Adjustment RV3 to that the waveform is as shown in the figure below. (focus gain adjustment)

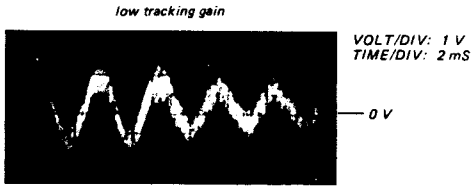
- Incorrent Examples (DC level changes more than on adjusted waveform)

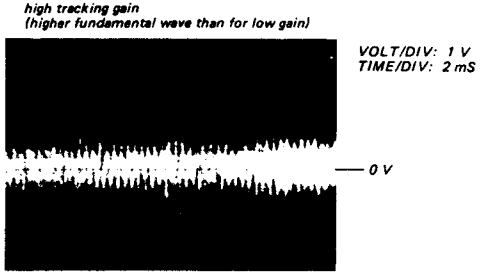




5. Connect oscilloscope to main board TP (TEI), TP (TEO).
6. Adjust RV4 so that the waveform is as shown in the figure below. (tracking gain adjustment)

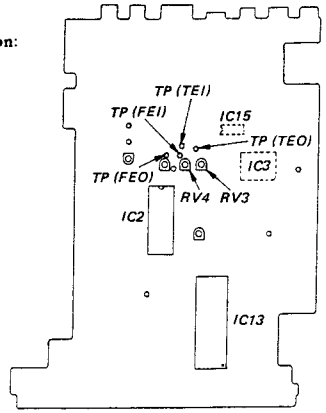
- Incorrect Examples (fundamental wave appears)





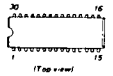
Adjustment Location:

main board



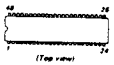
- Semiconductor Lead Layouts

CXA1081S

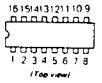


M5231TL

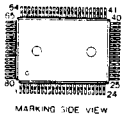
CXA1182S



M5290P-16
TA8406P

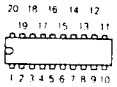


CXD1125Q



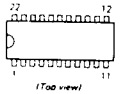
μPC4570HA

CXD1161P-1



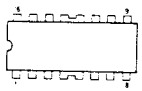
2SA1345
2SC3399
2SC3402

CXD1162P

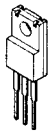


2SB1013
2SC3622

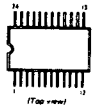
LA6520



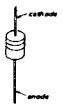
2SB1274SA-Q
2SD1913SA-Q



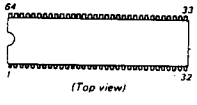
LC9600P-144



RD5.1ES-B



MSC6458-18SS



RD6.8ES-B
1SS132
10E2

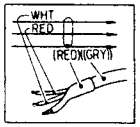
M5218L

SECTION 2
DIAGRAMS

Note on Mounting Diagram:

Note:

- Color code or sleeving over the end of the jacket.



- ○—— : parts extracted from the component side.

Note on Schematic Diagram:

Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▬▬ : B+ bus.
- ▬ ▬ : B– bus.
- ▭ : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark : STOP
  ( ) : PLAY
- Voltages are taken with a VOM (50 kΩ/V).
  Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- ●—▶ : Signal path.
- Switch

Ref. No.	Switch	Position
SW1	POWER	OFF
SW3	CLEAR	OFF
SW4	OPEN/CLOSE	OFF
SW5	REPEAT	OFF
SW6	PLAY	OFF
SW7	PROGRAM	OFF
SW8	SEARCH REVERSE	OFF
SW9	AMS REVERSE	OFF
SW10	AUTO SPACE	OFF
SW11	PAUSE	OFF
SW12	SHUFFLE	OFF
SW13	CHECK	OFF
SW14	SEARCH FORWARD	OFF
SW15	AMS FORWARD	OFF
SW16	DISPLAY	OFF
SW17	STOP	OFF
SW18	CONTINUE	OFF
SW401	LIMIT	OFF
SW901	LOADING	OFF

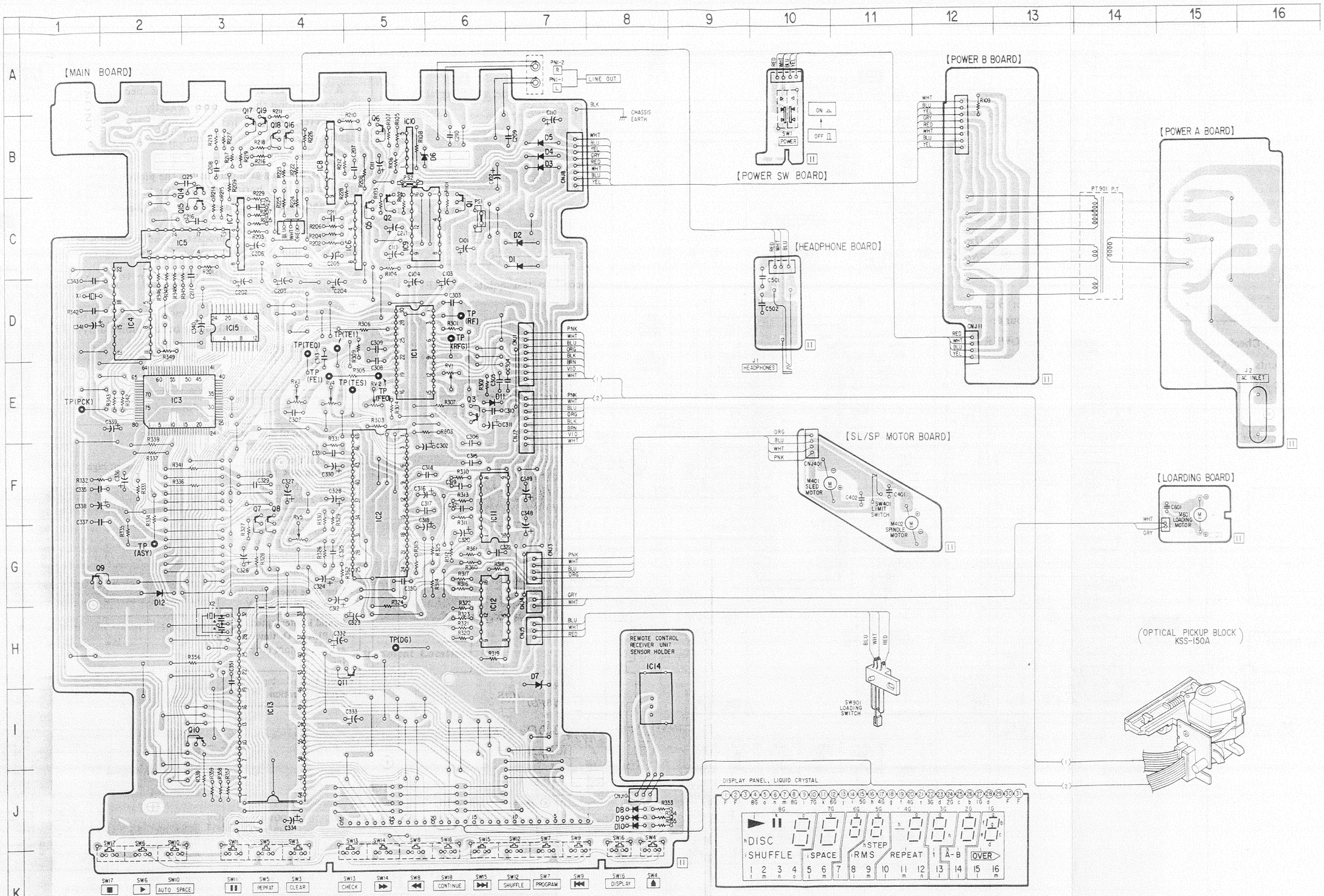
Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

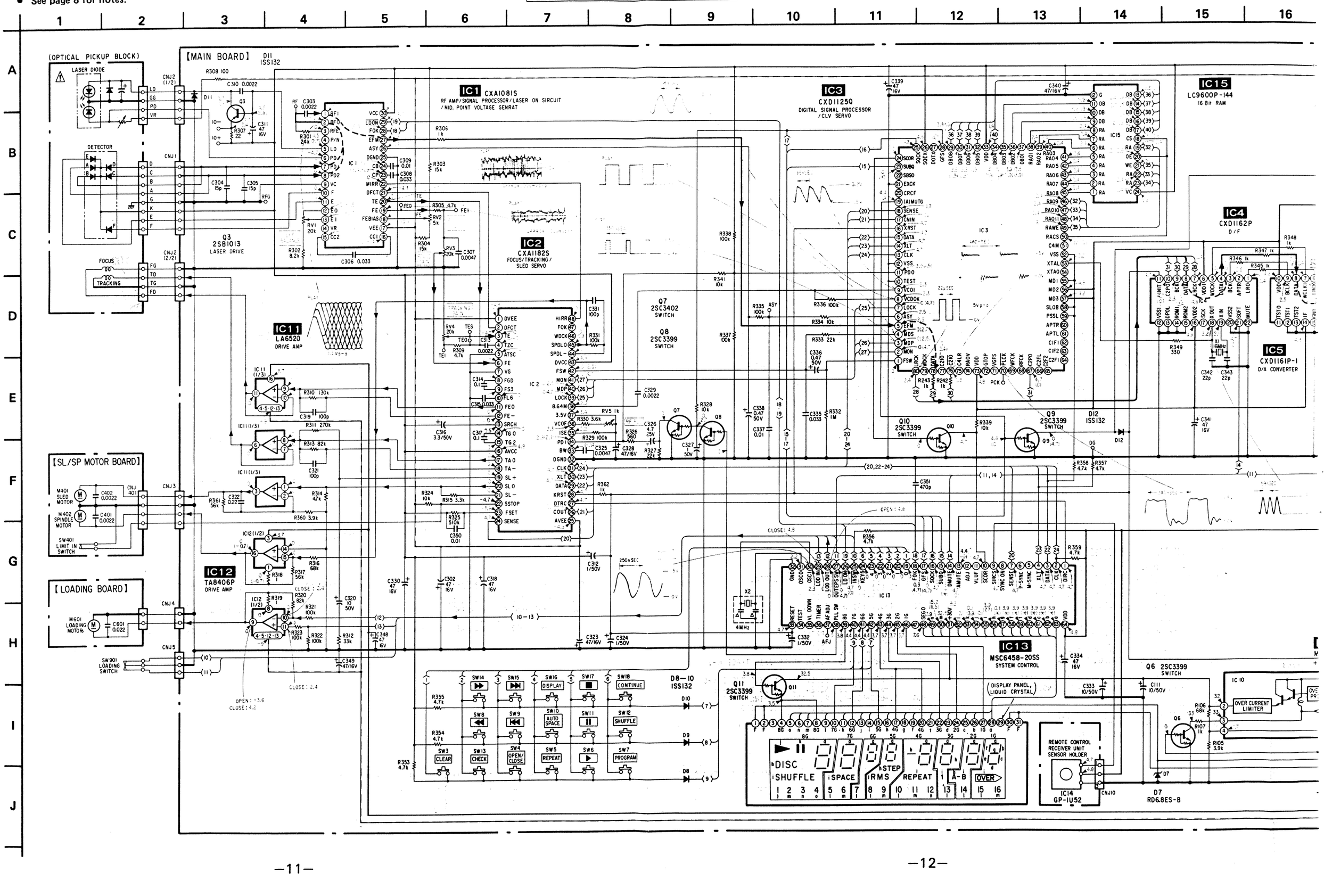
- **SEMICONDUCTOR LOCATION**

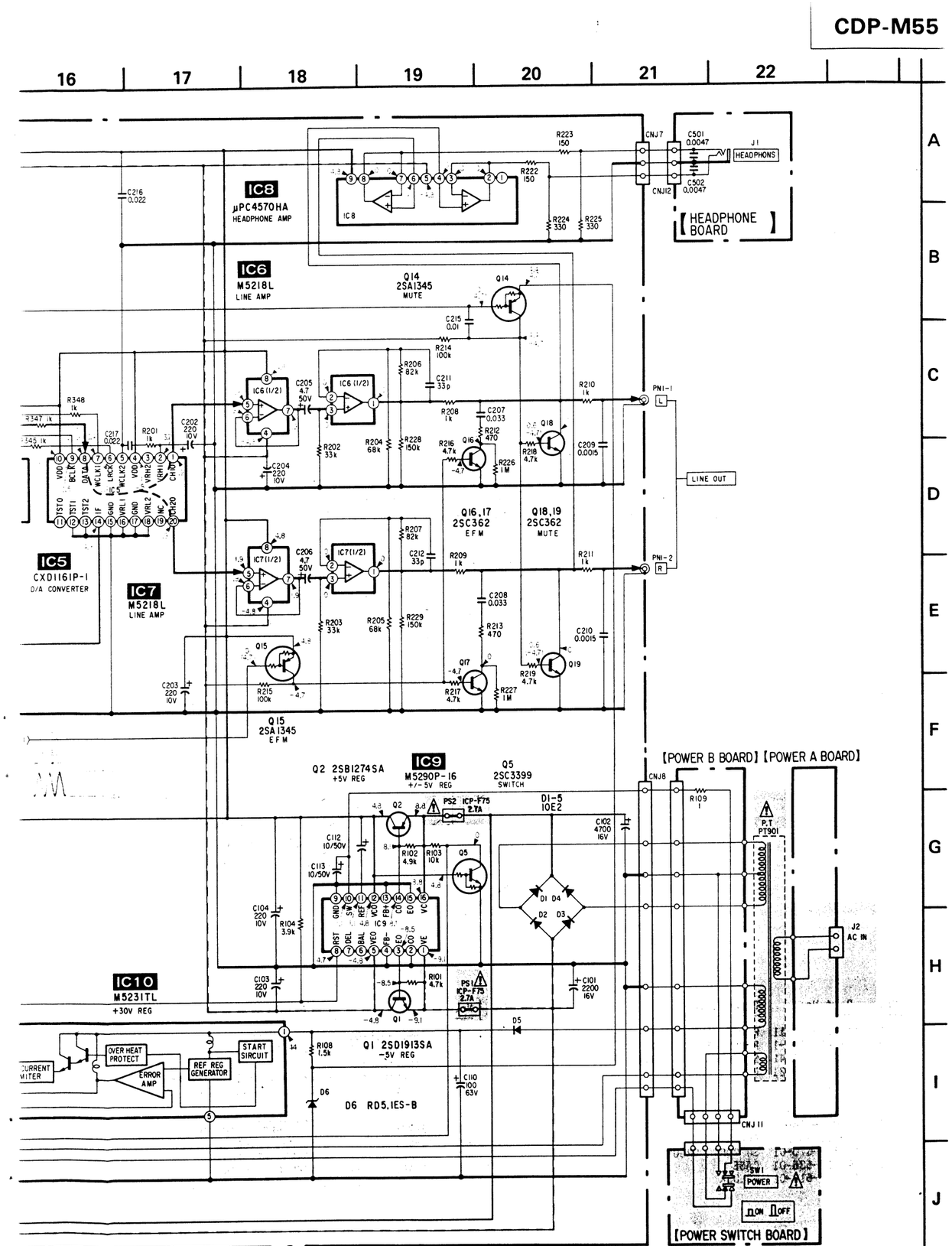
Ref. No.	Location
D1	C-6
D2	C-6
D3	B-7
D4	B-7
D5	B-7
D6	B-5
D7	H-7
D8	J-8
D9	J-8
D10	J-8
D11	E-6
D12	G-2
IC1	D-5
IC2	F-5
IC3	E-2
IC4	D-2
IC5	C-2
IC6	C-4
IC7	C-3
IC8	B-4
IC9	C-5
IC10	B-5
IC11	F-6
IC12	H-6
IC13	I-3
IC14	I-8
IC15	D-3
Q1	C-6
Q2	C-5
Q3	E-6
Q5	C-5
Q6	B-5
Q7	F-3
Q8	F-3
Q9	G-1
Q10	I-2
Q11	H-4
Q14	B-2
Q15	C-2
Q16	B-4
Q17	B-3
Q18	B-3
Q19	B-3

2-1. MOUNTING DIAGRAM



● See page 8 for notes.




16
17
18
19
20
21
22
A
B
C
D
E
F
G
H
I
J
IC8
µPC4570HA
HEADPHONE AMP
IC6
M5218L
LINE AMP
Q14
2SA1345
MUTE
IC5
CXD1161P-1
D/A CONVERTER
IC7
M5218L
LINE AMP
Q15
2SA1345
E F M
Q16,17
2SC362
E F M
Q18,19
2SC362
MUTE
IC9
M5290P-16
+/-5V REG
Q2 2SB1274SA
+5V REG
Q5
2SC3399
SWITCH
IC10
M5231TL
+30V REG
Q1 2SD1913SA
-5V REG
D6 RD5.1ES-B
D1-5
10E2
D1 D4
D2 D3
D5
HEADPHONS
J1
J2
AC IN
LINE OUT
PNI-1
PNI-2
CNJ7
CNJ12
CNJ8
CNJ11
P.T
PT901
PS1
PS2
ICP-F75
2.7A
POWER
ON
OFF
SW1
HEADPHONE BOARD
POWER B BOARD
POWER A BOARD
POWER SWITCH BOARD
OVER HEAT PROTECT
REF REG GENERATOR
START SIRCUIT
ERROR AMP

SECTION 3

EXPLODED VIEWS AND PARTS LIST

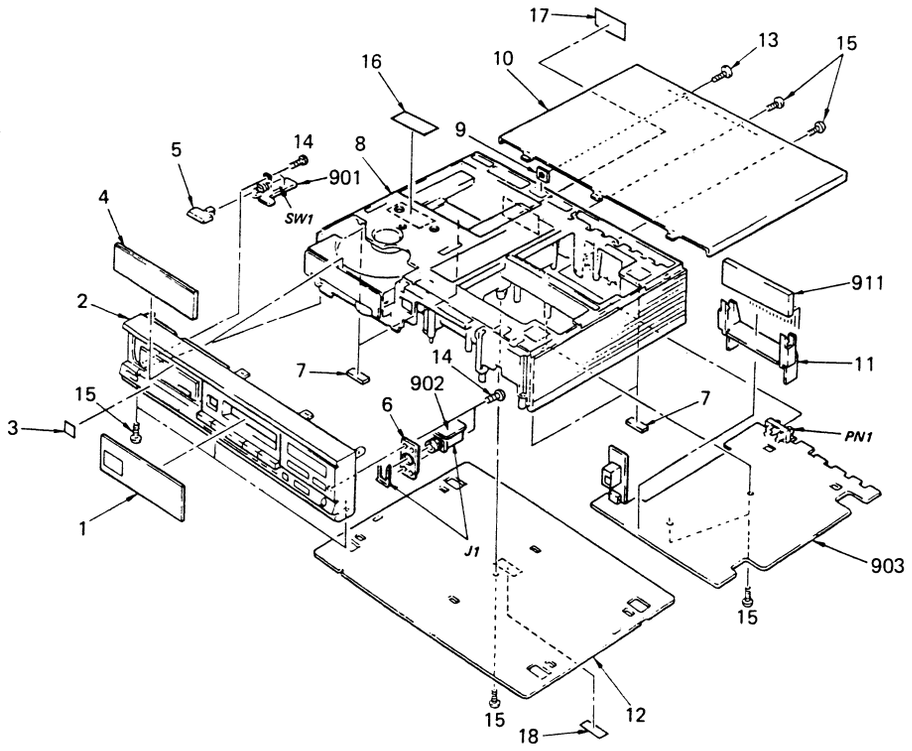
NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
  Example:
  (RED) . . . KNOB, BALANCE (WHITE)
  ↑ ↑
  Cabinet's Color Parts' Color

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

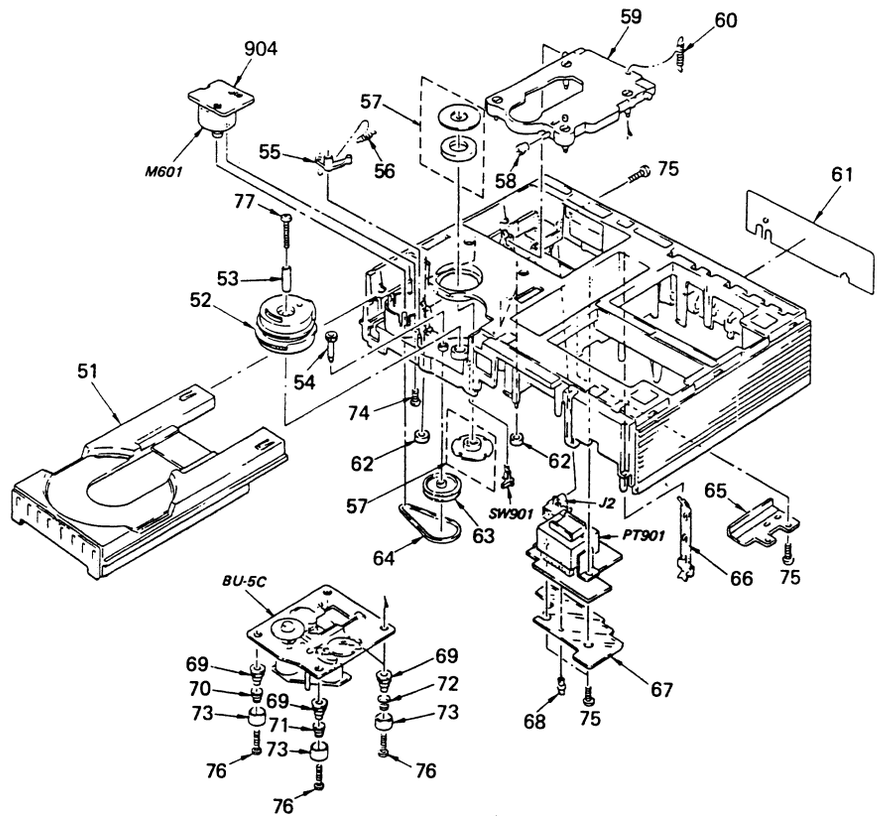
Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

(1) CABINET ASSEMBLY



No.	Part No.	Description	Remarks
1	*4-922-614-11	PLATE, INDICATION	
2	X-4917-532-1	PANEL ASSY, FRONT	
3	3-703-713-41	STICKER, SONY SYMBOL (10)	
4	*4-922-609-21	PANEL, LOADING	
5	4-917-525-11	KNOB, POWER	
6	*4-922-608-01	BRACKET (HP)	
7	4-917-524-01	FELT, FOOT	
8	X-4917-533-1	FRAME ASSY	
9	*4-918-670-01	SUPPORT, GROUND	
10	4-917-536-01	CASE	
11	*4-922-613-01	HOLDER	
12	*4-917-535-01	PLATE, BOTTOM	
13	3-703-685-21	SCREW (+BV 3X8)	
14	7-685-133-19	SCREW +BTP 2.6X6 TYPE2 N-S	
15	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
16	*4-885-843-02	LABEL, CAUTION, LASER	
17	*4-885-838-00	LABEL, CLASS 1	
18	3-703-079-21	(UK)...LABEL, CAUTION (BACK)	
901	*1-623-668-11	PC BOARD, POWER SW	
902	*1-623-669-11	PC BOARD, HEADPHONE	
903	*A-4651-147-A	MOUNTED PCB, MAIN	
911	1-519-440-11	INDICATOR TUBE, FLUORESCENT	

(2) FRAME ASSEMBLY

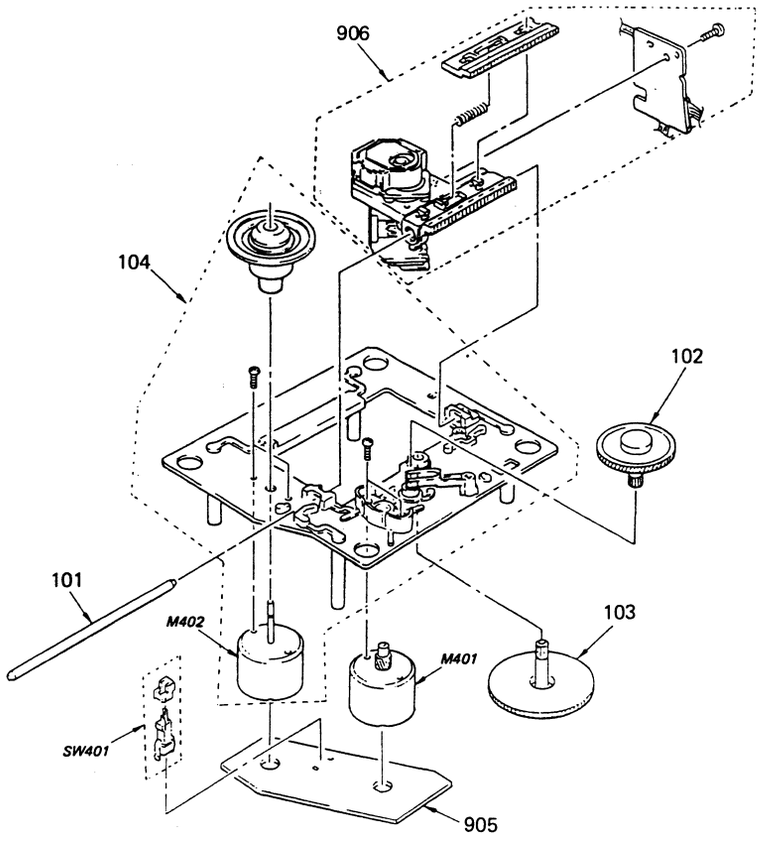


No.	Part No.	Description	Remarks
51	*4-922-604-01	TABLE, DISK	
52	4-917-534-01	GEAR (A), LOADING	
53	*4-917-523-01	COLLAR, CAM	
54	4-917-516-01	GEAR (B), LOADING	
55	4-917-519-01	LEVER, SET	
56	4-917-514-01	SPRING, TENSION	
57	A-4665-024-A	MAGNET ASSY	
58	4-917-515-01	ROLLER	
59	4-917-537-01	BASE, FLOATING	
60	4-917-526-01	SPRING, TENSION	
61	4-922-601-01	(AEP)...PLATE, INDICATION	
	4-922-602-01	(UK)....PLATE, INDICATION	
62	*3-576-990-01	CUSHION	
63	4-917-521-01	PULLEY, LOADING	
64	4-917-522-01	BELT	
65	*4-917-517-01	GUIDE, LEAD	
66	*4-917-511-01	PLATE, GROUND	
67	4-917-510-01	SHEET, INSULATING	
68	*3-531-576-11	RIVET	
69	4-917-562-01	INSULATOR	
70	4-917-541-01	SPRING (B)	
71	4-918-669-01	SPRING (W)	
72	4-917-507-01	SPRING (H)	
73	4-917-508-01	HOLDER, SP	
74	7-621-759-30	+PSW, 2.6X5	
75	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
76	7-685-535-19	SCREW +BTP 2.6X10 TYPE2 N-S	
77	7-685-552-19	SCREW +BTP 3X25 TYPE2 N-S	
904	*1-620-603-11	PC BOARD, LOADING MOTOR	
M601	A-4608-330-A	MOTOR ASSY (LOADING)	
PT901	⚠1-449-025-11	**TRANSFORMER, POWER**	
SW901	1-570-203-11	SWITCH, LEAF (LOADING)	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

(3) PICKUP ASSEMBLY (BU-5C)



No.	Part No.	Description	Remarks
101	4-917-565-01	SHAFT, SLED	
102	4-917-567-01	GEAR (M)	
103	4-917-564-01	GEAR (P), FLATNESS	
104	X-4917-523-1	BASE ASSY (SPINDLE MOTOR M402)	
905	*1-624-322-11	PC BOARD, SL/SP MOTOR	
906	⚠8-848-062-01	PICKUP, OPTICS KSS-150A	
M401	X-4917-504-1	MOTOR ASSY (SLED)	
SW401	1-571-274-11	SWITCH, LEAF (LIMIT)	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

CDP-M55

SECTION 4
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μF, PF: μμF.

RESISTORS
- All resistors are in ohms.
- F: nonflammable

COILS
- MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description			
901	*1-623-668-11	PC BOARD, POWER SW			
902	*1-623-669-11	PC BOARD, HEADPHONE			
903	*A-4651-147-A	MOUNTED PCB, MAIN			
904	*1-620-603-11	PC BOARD, LOADING MOTOR			
905	*1-624-322-11	PC BOARD, SL/SP MOTOR			
906	⚠8-848-062-01	PICKUP, OPTICS KSS-150A			
911	1-519-440-11	INDICATOR TUBE, FLUORESCENT			
C101	1-124-556-11	ELECT	2200MF	20%	16V
C102	1-124-898-11	ELECT	4700MF	20%	16V
C103	1-124-674-91	ELECT	220MF	20%	10V
C104	1-124-674-91	ELECT	220MF	20%	10V
C110	1-124-572-11	ELECT	100MF	20%	63V
C111	1-123-875-11	ELECT	10MF	20%	50V
C112	1-123-875-11	ELECT	10MF	20%	50V
C113	1-123-875-11	ELECT	10MF	20%	50V
C202	1-124-674-91	ELECT	220MF	20%	10V
C203	1-124-674-91	ELECT	220MF	20%	10V
C204	1-124-674-91	ELECT	220MF	20%	10V
C205	1-123-369-00	ELECT	4.7MF	20%	50V
C206	1-123-369-00	ELECT	4.7MF	20%	50V
C207	1-136-159-00	FILM	0.033MF	5%	50V
C208	1-136-159-00	FILM	0.033MF	5%	50V
C209	1-161-374-11	CERAMIC	0.0015MF	20%	16V
C210	1-161-374-11	CERAMIC	0.0015MF	20%	16V
C211	1-162-211-31	CERAMIC	33PF	5%	50V
C212	1-162-211-31	CERAMIC	33PF	5%	50V
C215	1-161-379-00	CERAMIC	0.01MF	20%	16V
C216	1-161-494-00	CERAMIC	0.022MF		25V
C217	1-161-494-00	CERAMIC	0.022MF		25V
C302	1-124-477-11	ELECT	47MF	20%	16V
C303	1-161-375-00	CERAMIC	0.0022MF	20%	16V
C304	1-162-203-31	CERAMIC	15PF	5%	50V
C305	1-162-203-31	CERAMIC	15PF	5%	50V
C306	1-136-159-00	FILM	0.033MF	5%	50V
C307	1-161-377-00	CERAMIC	0.0047MF	30%	16V
C308	1-136-159-00	FILM	0.033MF	5%	50V
C309	1-136-153-00	FILM	0.01MF	5%	50V
C310	1-161-375-00	CERAMIC	0.0022MF	20%	16V
C311	1-124-477-11	ELECT	47MF	20%	16V
C312	1-124-499-11	ELECT	1MF	20%	50V
C313	1-161-375-00	CERAMIC	0.0022MF	20%	16V
C314	1-136-165-00	FILM	0.1MF	5%	50V
C315	1-136-159-00	FILM	0.033MF	5%	50V
C316	1-123-382-00	ELECT	3.3MF	20%	50V
C317	1-136-165-00	FILM	0.1MF	5%	50V
C318	1-124-477-11	ELECT	47MF	20%	16V
C319	1-162-282-31	CERAMIC	100PF	10%	50V
C320	1-123-875-11	ELECT	10MF	20%	50V
C321	1-162-282-31	CERAMIC	100PF	10%	50V
C322	1-136-169-00	FILM	0.22MF	5%	50V
C323	1-124-477-11	ELECT	47MF	20%	16V
C324	1-124-499-11	ELECT	1MF	20%	50V
C325	1-161-377-00	CERAMIC	0.0047MF	30%	16V
C326	1-123-369-00	ELECT	4.7MF	20%	25V
C327	1-124-499-11	ELECT	1MF	20%	50V
C328	1-124-477-11	ELECT	47MF	20%	16V
C329	1-161-375-00	CERAMIC	0.0022MF	20%	16V
C330	1-124-477-11	ELECT	47MF	20%	16V
C331	1-162-282-31	CERAMIC	100PF	10%	50V
C332	1-124-499-11	ELECT	1MF	20%	50V
C333	1-123-875-11	ELECT	10MF	20%	50V
C334	1-124-477-11	ELECT	47MF	20%	16V
C335	1-136-159-00	FILM	0.033MF	5%	50V
C336	1-124-902-00	ELECT	0.47MF	20%	50V
C337	1-161-379-00	CERAMIC	0.01MF	20%	16V
C338	1-124-902-00	ELECT	0.47MF	20%	50V
C339	1-124-477-11	ELECT	47MF	20%	16V
C340	1-124-236-00	ELECT	47MF	20%	16V
C341	1-124-477-11	ELECT	47MF	20%	16V
C342	1-162-207-31	CERAMIC	22PF	5%	50V
C343	1-162-207-31	CERAMIC	22PF	5%	50V
C348	1-124-236-00	ELECT	47MF	20%	16V
C349	1-124-236-00	ELECT	47MF	20%	16V
C350	1-161-379-00	CERAMIC	0.01MF	20%	16V
C351	1-162-290-31	CERAMIC	470PF	10%	50V
C401	1-106-351-00	MYLAR	0.0022MF	5%	50V
C402	1-106-351-00	MYLAR	0.0022MF	5%	50V
C501	1-161-377-00	CERAMIC	0.0047MF	30%	16V
C502	1-161-377-00	CERAMIC	0.0047MF	30%	16V
C601	1-136-157-00	FILM	0.022MF	5%	50V
CNJ1	*1-564-724-11	PIN, CONNECTOR (SMALL TYPE) 8P			
CNJ2	*1-564-724-31	PIN, CONNECTOR (SMALL TYPE) 8P			
CNJ3	*1-564-720-11	PIN, CONNECTOR (SMALL TYPE) 4P			
CNJ4	*1-564-336-00	PIN, CONNECTOR 2P			
CNJ5	*1-564-337-00	PIN, CONNECTOR 3P			
CNJ7	*1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P			
CNJ8	*1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P			
CNJ10	*1-566-165-11	CONNECTOR, BOARD TO BOARD 3P			
CNJ11	*1-566-779-11	PIN, CONNECTOR (PC BOARD) 4P			
CNJ12	*1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P			
CNJ401	*1-564-720-21	PIN, CONNECTOR (SMALL TYPE) 4P			

Ref.No.	Part No.	Description
D1	8-719-200-77	DIODE 10E2N
D2	8-719-200-77	DIODE 10E2N
D3	8-719-200-77	DIODE 10E2N
D4	8-719-200-77	DIODE 10E2N
D5	8-719-200-77	DIODE 10E2N
D6	8-719-109-83	DIODE RD5.1ES-B
D7	8-719-109-93	DIODE RD6.8ES-B
D8	8-719-940-76	DIODE 1SS132
D9	8-719-940-76	DIODE 1SS132
D10	8-719-940-76	DIODE 1SS132
D11	8-719-940-76	DIODE 1SS132
D12	8-719-940-76	DIODE 1SS132
IC1	8-752-031-80	IC CXA1081S
IC2	8-752-032-33	IC CXA1182S
IC3	8-752-322-04	IC CXD1125Q
IC4	8-759-946-62	IC CXD1162P
IC5	8-759-805-29	IC CXD1161P-1
IC6	8-759-600-02	IC M5218L
IC7	8-759-600-02	IC M5218L
IC8	8-759-106-61	IC UPC4570HA
IC9	8-759-630-21	IC M5290P-16
IC10	8-759-605-43	IC M5231TL
IC11	8-759-805-18	IC LA6520
IC12	8-759-208-96	IC TA8406P
IC13	8-759-945-86	IC MSC6458-18SS
IC14	8-749-920-03	IC GP1U52
IC15	1-808-060-11	IC LC9600P-144
J1	1-563-485-21	JACK, LARGE TYPE (HEADPHONES)
J2	⚠1-526-931-11	INLET, AC (AC IN)
M401	X-4917-504-1	MOTOR ASSY (SLED)
M402	X-4917-523-1	BASE ASSY (SPINDLE MOTOR)
M601	A-4608-330-A	MOTOR ASSY (LOADING)
PN1	*1-562-999-21	JACK, PIN 2P (LINE OUT)
PS1	⚠1-532-686-00	LINK, IC (ICP-F75 2.7A)
PS2	⚠1-532-686-00	LINK, IC (ICP-F75 2.7A)
PT901	⚠1-449-025-11	TRANSFORMER, POWER
Q1	8-729-808-76	TRANSISTOR 2SD1913SA-Q
Q2	8-729-808-72	TRANSISTOR 2SB1274SA-Q
Q3	8-729-801-83	TRANSISTOR 2SB1013
Q5	8-729-806-38	TRANSISTOR 2SC3399
Q6	8-729-806-38	TRANSISTOR 2SC3399
Q7	8-729-806-28	TRANSISTOR 2SC3402
Q8	8-729-806-38	TRANSISTOR 2SC3399
Q9	8-729-806-38	TRANSISTOR 2SC3399
Q10	8-729-806-38	TRANSISTOR 2SC3399

Ref.No.	Part No.	Description			
Q11	8-729-806-38	TRANSISTOR 2SC3399			
Q14	8-729-806-20	TRANSISTOR 2SA1345			
Q15	8-729-806-20	TRANSISTOR 2SA1345			
Q16	8-729-107-91	TRANSISTOR 2SC3622-L			
Q17	8-729-107-91	TRANSISTOR 2SC3622-L			
Q18	8-729-107-91	TRANSISTOR 2SC3622-L			
Q19	8-729-107-91	TRANSISTOR 2SC3622-L			
R101	1-249-425-11	CARBON	4.7K	5%	1/4W
R102	1-249-425-11	CARBON	4.7K	5%	1/4W
R103	1-249-429-11	CARBON	10K	5%	1/4W
R104	1-249-424-11	CARBON	3.9K	5%	1/4W
R105	1-249-424-11	CARBON	3.9K	5%	1/4W
R106	1-249-439-11	CARBON	68K	5%	1/4W
R107	1-249-417-11	CARBON	1K	5%	1/4W
R108	1-249-431-11	CARBON	15K	5%	1/4W
R109	1-249-381-11	CARBON	1	5%	1/4W
R201	1-259-428-11	CARBON	1K	5%	1/6W
R202	1-259-464-11	CARBON	33K	5%	1/6W
R203	1-259-464-11	CARBON	33K	5%	1/6W
R204	1-259-472-11	CARBON	68K	5%	1/6W
R205	1-259-472-11	CARBON	68K	5%	1/6W
R206	1-259-474-11	CARBON	82K	5%	1/6W
R207	1-259-474-11	CARBON	82K	5%	1/6W
R208	1-259-428-11	CARBON	1K	5%	1/6W
R209	1-259-428-11	CARBON	1K	5%	1/6W
R210	1-259-428-11	CARBON	1K	5%	1/6W
R211	1-259-428-11	CARBON	1K	5%	1/6W
R212	1-259-420-11	CARBON	470	5%	1/6W
R213	1-259-420-11	CARBON	470	5%	1/6W
R214	1-249-441-11	CARBON	100K	5%	1/4W
R215	1-249-441-11	CARBON	100K	5%	1/4W
R216	1-249-425-11	CARBON	4.7K	5%	1/4W
R217	1-249-425-11	CARBON	4.7K	5%	1/4W
R218	1-249-425-11	CARBON	4.7K	5%	1/4W
R219	1-249-425-11	CARBON	4.7K	5%	1/4W
R222	1-259-408-11	CARBON	150	5%	1/6W
R223	1-259-408-11	CARBON	150	5%	1/6W
R224	1-259-416-11	CARBON	330	5%	1/6W
R225	1-259-416-11	CARBON	330	5%	1/6W
R226	1-259-500-11	CARBON	1M	5%	1/6W
R227	1-259-500-11	CARBON	1M	5%	1/6W
R228	1-259-480-11	CARBON	150K	5%	1/6W
R229	1-259-480-11	CARBON	150K	5%	1/6W
R301	1-215-454-00	CARBON	24K	5%	1/4W
R302	1-249-428-11	CARBON	8.2K	5%	1/4W
R303	1-249-431-11	CARBON	15K	5%	1/4W
R304	1-249-431-11	CARBON	15K	5%	1/4W

Ref.No.	Part No.	Description			
R305	1-249-425-11	CARBON	4.7K	5%	1/4W
R306	1-249-417-11	CARBON	1K	5%	1/4W
R307	1-249-397-11	CARBON	22	5%	1/4W
R308	1-249-405-11	CARBON	100	5%	1/4W
R309	1-249-425-11	CARBON	4.7K	5%	1/4W
R310	1-215-472-00	CARBON	130K	5%	1/4W
R311	1-215-479-00	CARBON	270K	5%	1/4W
R312	1-249-435-11	CARBON	33K	5%	1/4W
R313	1-249-440-11	CARBON	82K	5%	1/4W
R314	1-249-425-11	CARBON	4.7K	5%	1/4W
R315	1-249-423-11	CARBON	3.3K	5%	1/4W
R316	1-249-439-11	CARBON	68K	5%	1/4W
R317	1-249-438-11	CARBON	56K	5%	1/4W
R318	1-249-381-11	CARBON	1	5%	1/4W
R319	1-249-381-11	CARBON	1	5%	1/4W
R320	1-249-440-11	CARBON	82K	5%	1/4W
R321	1-249-441-11	CARBON	100K	5%	1/4W
R322	1-249-441-11	CARBON	100K	5%	1/4W
R323	1-249-441-11	CARBON	100K	5%	1/4W
R324	1-249-429-11	CARBON	10K	5%	1/4W
R325	1-215-486-00	CARBON	510K	5%	1/4W
R326	1-249-414-11	CARBON	560	5%	1/4W
R327	1-249-433-11	CARBON	22K	5%	1/4W
R328	1-249-429-11	CARBON	10K	5%	1/4W
R329	1-249-441-11	CARBON	100K	5%	1/4W
R330	1-215-434-00	METAL	3.6K	1%	1/6W
R331	1-249-441-11	CARBON	100K	5%	1/4W
R332	1-215-493-00	CARBON	1M	5%	1/4W
R333	1-249-433-11	CARBON	22K	5%	1/4W
R334	1-249-429-11	CARBON	10K	5%	1/4W
R335	1-249-441-11	CARBON	100K	5%	1/4W
R336	1-249-441-11	CARBON	100K	5%	1/4W
R337	1-215-469-00	METAL	100K	1%	1/6W
R338	1-215-469-00	METAL	100K	1%	1/6W
R339	1-249-429-11	CARBON	10K	5%	1/4W
R341	1-249-429-11	CARBON	10K	5%	1/4W
R342	1-249-417-11	CARBON	1K	5%	1/4W
R343	1-249-417-11	CARBON	1K	5%	1/4W
R345	1-249-417-11	CARBON	1K	5%	1/4W
R346	1-249-417-11	CARBON	1K	5%	1/4W
R347	1-249-417-11	CARBON	1K	5%	1/4W
R348	1-249-417-11	CARBON	1K	5%	1/4W
R349	1-259-416-11	CARBON	330	5%	1/6W
R353	1-249-425-11	CARBON	4.7K	5%	1/4W
R354	1-249-425-11	CARBON	4.7K	5%	1/4W
R355	1-249-425-11	CARBON	4.7K	5%	1/4W

Ref.No.	Part No.	Description			
R356	1-249-425-11	CARBON	4.7K	5%	1/4W
R357	1-249-425-11	CARBON	4.7K	5%	1/4W
R358	1-249-425-11	CARBON	4.7K	5%	1/4W
R359	1-249-425-11	CARBON	4.7K	5%	1/4W
R360	1-249-424-11	CARBON	3.9K	5%	1/4W
R361	1-249-438-11	CARBON	56K	5%	1/4W
R362	1-249-417-11	CARBON	1K	5%	1/4W
RV1	1-237-194-21	RES, ADJ, CARBON 20K			
RV2	1-237-192-21	RES, ADJ, CARBON 5K			
RV3	1-237-194-21	RES, ADJ, CARBON 20K			
RV4	1-237-194-21	RES, ADJ, CARBON 20K			
RV5	1-228-990-00	RES, ADJ, METAL GLAZE 1K			
SW1	⚠1-552-928-00	SWITCH, PUSH (POWER)			
SW3	1-571-213-11	SWITCH, KEY BOARD (3 KEY)(CLEAR)			
SW4	1-554-088-00	SWITCH, KEY BOARD (OPEN/CLOSE)			
SW5	1-571-213-11	SWITCH, KEY BOARD (3 KEY)(REPEAT)			
SW6	1-571-213-11	SWITCH, KEY BOARD (3 KEY)(PLAY)			
SW7	1-571-214-11	SWITCH, KEY BOARD (4 KEY)(PROGRAM)			
SW8	1-571-214-11	SWITCH, KEY BOARD (4 KEY) (SEARCH REVERSE)			
SW9	1-571-214-11	SWITCH, KEY BOARD (4 KEY)(AMS REVERSE)			
SW10	1-571-213-11	SWITCH, KEY BOARD (3 KEY)(AUTO SPACE)			
SW11	1-571-213-11	SWITCH, KEY BOARD (3 KEY)(PAUSE)			
SW12	1-571-214-11	SWITCH, KEY BOARD (4 KEY)(SHUFFLE)			
SW13	1-571-214-11	SWITCH, KEY BOARD (4 KEY)(CHECK)			
SW14	1-571-214-11	SWITCH, KEY BOARD (4 KEY) (SEARCH FORWARD)			
SW15	1-571-214-11	SWITCH, KEY BOARD (4 KEY)(AMS FORWARD)			
SW16	1-554-088-00	SWITCH, KEY BOARD (DISPLAY)			
SW17	1-571-213-11	SWITCH, KEY BOARD (3 KEY)(STOP)			
SW18	1-571-214-11	SWITCH, KEY BOARD (4 KEY)(CONTINUE)			
SW401	1-571-274-11	SWITCH, LEAF (LIMIT)			
SW901	1-570-203-11	SWITCH, LEAF (LOADING)			
X1	1-567-908-21	VIBRATOR, CRYSTAL (16MHz)			
X2	1-567-686-11	OSCILLATOR, CERAMIC (4MHz)			

ACCESSORY & PACKING MATERIAL

1-463-924-11	REMOTO COMMANDER (RM-D250)
1-558-543-11	CORD, CONNECTION
⚠1-558-032-11	(UK)....CORD, POWER
⚠1-558-835-11	(AEP)...CORD, POWER
3-769-600-11	MANUAL, INSTRUCTION
3-769-600-41	(AEP)...MANUAL, INSTRUCTION
*3-795-629-11	(AEP)...INSTRUCTION
4-922-417-01	LID, BATTERY CASE (RM-D250)
4-922-616-11	INDIVIDUAL CARTON
4-922-618-01	CUSHION

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Troubleshooting guide

The following checks will assist in the correction of most problems which you may encounter with your unit. Before going through the check list below, first refer back to the connections and operating procedures.

Symptom	Cause	Remedy
Play does not begin	The disc is incorrectly inserted.	Insert the disc correctly.
	The disc is extremely dirty.	Clean the disc.
	The disc is inserted upside down.	Insert the disc correctly.
	⏸ has been pressed.	Press ⏸ again to release pause.
	Moisture condensation.	Leave the player turned on for about an hour.
No sound from one or both channels	Incorrect connections.	Connect properly.

CDP-M55

SONY
SERVICE MANUAL

AEP Model
UK Model

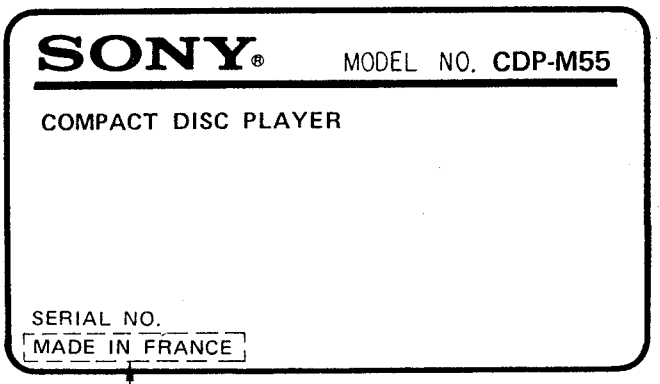
SUPPLEMENT-1

File this supplement with the service manual.

This SUPPLEMENT-1 is for the model made in France.

Refer to the CDP-M55 service manual for related information not containd in this SUPPLEMENT-1.

[MODEL IDENTIFICATION]



LABEL, MODEL NUMBER

Identify the set with the indication of "MADE IN FRANCE" here.

[Note for replacing MAIN BOARD]

- Solder the lead wires of CNJ-4 (CNP701) and CNJ-5 (CNP702) directly to the lands of MAIN BOARD.
- MAIN BOARD supplied as a service part has quite different reference numbers on it from the original board, however, they are completely compatible. (The above numbers in brackets are the original ones.)

EXPLODED VIEWS

Only the difference from the model made in Japan is described in this section.

Description \ Model	made in Japan		made in France		Page on CDP-M35 Service Manual
	No.	Part No.	No.	Part No.	
BRACKET (HP)	6	4-922-608-01	–	not supplied	
HEAD PHONE ASSY	–	not supplied	19	*A-4675-221-A	
PC BOARD, REMOCON	–	——	907	*1-623-667-14	Page 14 and Fig. 1
JACK, LARGE TYPE	J1	1-563-485-21	J451	1-566-936-51	
JACK, PIN 2P (LINE OUT)	PN1	1-562-999-21	CNJ401	1-562-999-21	
SWITCH, PUSH (POWER)	SW1	1-552-928-00	SW901	1-552-928-00	
PC BOARD, POWER TRANSFOMER	–	——	908	*1-623-667-14	
INLET, AC	J2	⚠1-526-931-11	CNJ902	⚠1-526-931-11	Page 15 and Fig. 2
TRANSFOMER, POWER	PT901	⚠1-449-025-11	T901	⚠1-449-025-11	
SWITCH, LEAF (LOADING)	SW901	1-576-203-11	SW601	1-570-203-11	
PC BOARD, SL/SP MOTOR	905	*1-624-322-11	905	*1-620-097-11	
MOTOR ASSY (SLED)	M401	X-4917-504-1	M101	X-4917-504-1	Page 16
SWITCH, LEAF (LIMIT)	SW401	1-571-274-11	SW401	1-570-822-11	

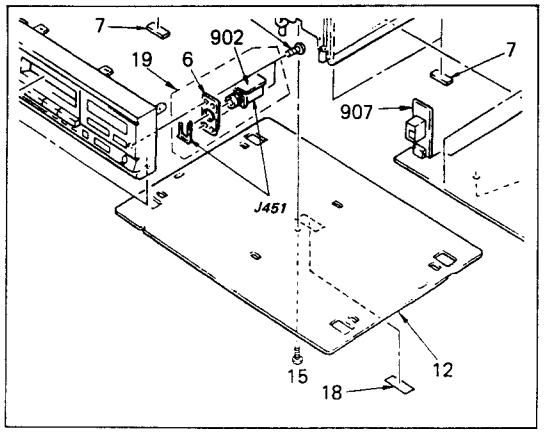


Fig. 1

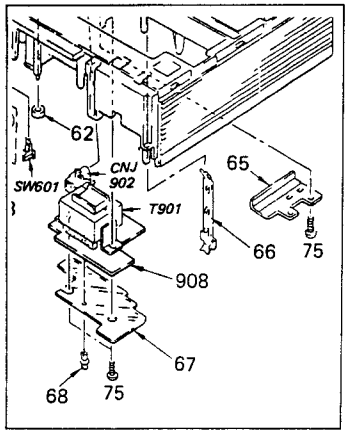


Fig. 2

Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Note:
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

• Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

CDP-M55

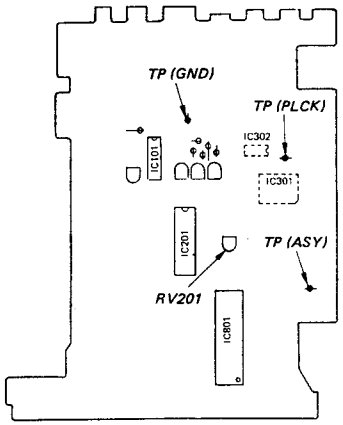
ELECTRICAL ADJUSTMENTS

1. Perform adjustments in the order given.
2. Use YEDS-18 (Part No. 3-702-101-01) disc unless otherwise indicated.
3. Use the oscilloscope with more than 10 MΩ impedance.

RF PLL Free-run Frequency Check

1. Ground both test points TP (ASY).
2. Press OPEN/CLOSE button and open the disk holder.
3. Check for 4.3218 MHz at test point TP (PLCK) using a frequency counter. If not, adjust RV201.

Adjustment Location: main board

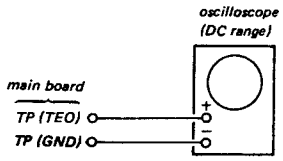


– Component Side –

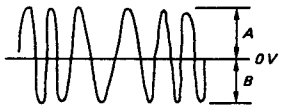
E-F Balance Adjustment

This adjustment should be made when replacing TOP (T-type Optical Pick-up).

Procedure:

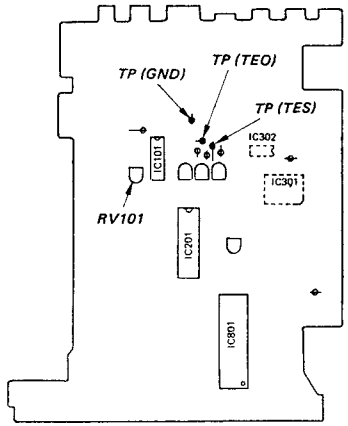


1. Connect oscilloscope to test point TP (TES) and ground.
2. Turn POWER switch on.
3. Put disc (YEDS-18) in and press ▷ button.
4. Press ◀◀ FF or ▶▶ REW botton.
5. Adjust RV101 for a vertically-symmetrical waveform as shown below. (A = B)



VOLT/DIV: 1 V
TIME/DIV: 1ms

Adjustment Location: main board



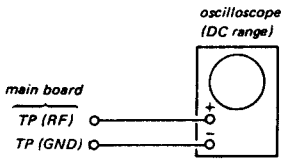
– Component Side –

REFERENCE

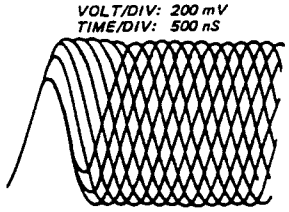
Focus Bias Adjustment

This adjustment should be made when replacing TOP (T-type Optical Pick-up).

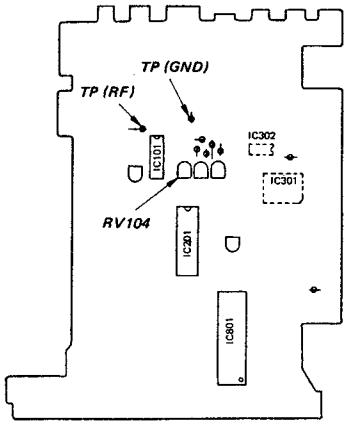
Procedure:



1. Connect oscilloscope to test points TP (RF) and TP (GND).
2. Turn POWER switch on.
3. Put disc (YEDS-18) in and press button.
4. Adjust RV104 for an optimum waveform eye pattern or so that the peak is maximum. Optimum eye pattern means that shape "◇" can be clearly distinguished at the center of the waveform.



Adjustment Location: main board



Focus/Tracking Gain Adjustment

A frequency response analyzer is necessary in order to perform this adjustment exactly.

However, this gain has a margin, so even if it is slightly off, there is no problem. Therefore, do not perform this adjustment.

Focus/tracking gain determines the pick-up follow-up (vertical and horizontal) relative to mechanical noise and mechanical shock when the 2-axis device operate.

However, as these reciprocate, the adjustment is at the point where both are satisfied.

- When gain is raised, the noise when the 2-axis device operates increases.
- When gain is lowered, it is more susceptible to mechanical shock and skipping occurs more easily.
- When gain adjustment is off, the symptoms below appear.

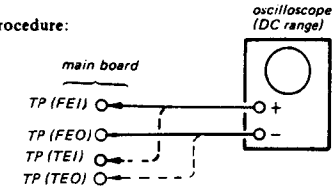
Gain / Symptoms	Focus	Tracking
• The time until music starts becomes longer for STOP →▷PLAY or automatic selection (⏮ ⏭ buttons pressed. (Normally takes about 2 seconds.)	low	low or high
• Music does not start and disc continues to rotate for STOP→▷PLAY or automatic selection (⏮ ⏭ buttons pressed.)	–	low
• Disc table opens shortly after STOP→▷PLAY.	low or high	–
• Sound is interrupted during PLAY. Or time counter display stops progressing.	–	low
• More poise during 2-axis device operation.	high	high

The following is a simple adjustment method.

– Simple Adjustment –

Note: Since exact adjustment cannot be performed, remember the positions of the controls before performing the adjustment. If the positions after the simple adjustment are only a little different, return the controls to the original position.

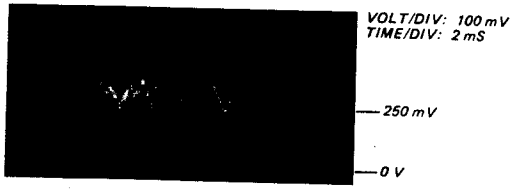
Procedure:



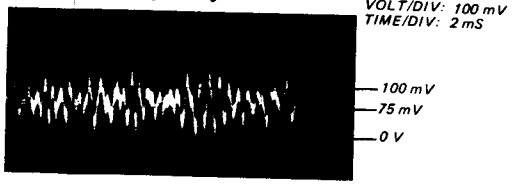
1. Keep the set horizontal.
   (If the set is not horizontal, this adjustment cannot be performed due to the gravity against the 2 axis device.)
2. Insert disc (YEDS-18) and press PLAY button.
3. Connect oscilloscope to main amp board TP (FEI), TP (FEO).
4. Adjustment RV103 to that the waveform is as shown in the figure below. (focus gain adjustment)

- Incorrent Examples (DC level changes more than on adjusted waveform)

low focus gain



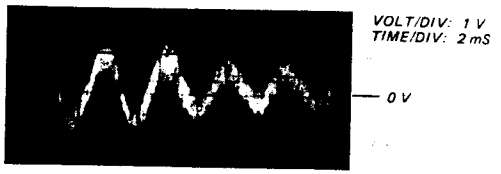
high focus gain



5. Connect oscilloscope to main board TP (TEI), TP (TEO).
6. Adjust RV102 so that the waveform is as shown in the figure below. (tracking gain adjustment)

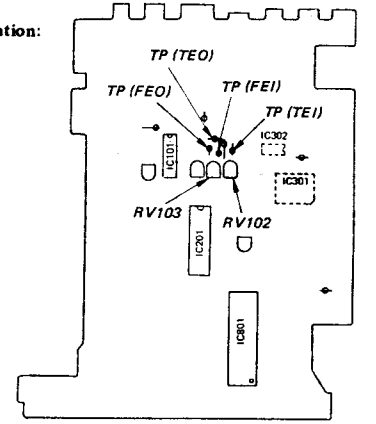
- Incorrect Examples (fundamental wave appears)

low tracking gain



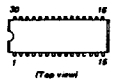
high tracking gain
(higher fundamental wave than for low gain)

Adjustment Location:
main board

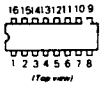


• Semiconductor Lead Layouts

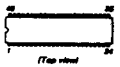
CXA1081S



M5290P-16
TA8406P

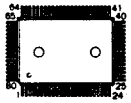


CXA1182S



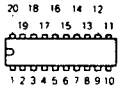
μPC4570HA

CXD1125Q



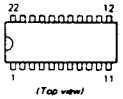
2SA1345
2SC3399
2SC3402

CXD1161P-2

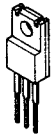


2SB1013
2SC3622A-L

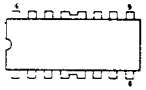
CXD1162P



2SB1274SA-Q
2SD1913SA-Q

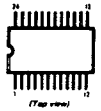


LA6520



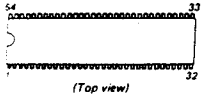
GP1U52

CXK5816M-10S



RD5.1ES-B

MSC6458-23SS



RD6.8ES-B
1SS132
10E2N

M5231TL

DIAGRAMS

Note on Mounting Diagram:

- o——— : parts extracted from the component side.
- ■ : parts mounted on the conductor side.

Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- ——— : B+ Line
- - - - : B− Line
- ▭ : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : STOP
  ( ) : PLAY
- Voltages are taken with a VOM (50 kΩ/V).
  Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : CD
- Switch

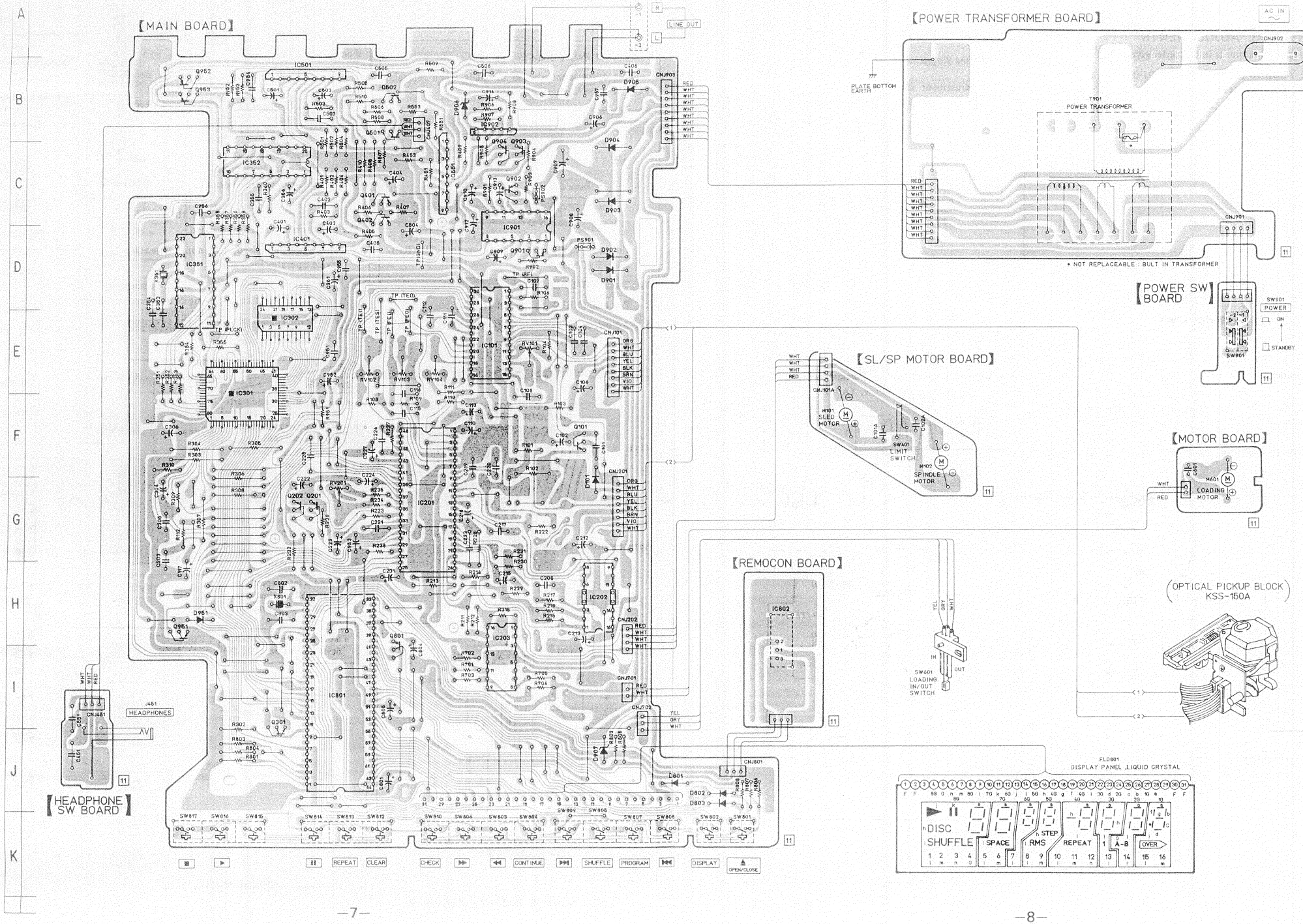
Ref. No.	Switch	Position
SW401	LIMIT IN	OFF
SW601	IN/OUT	IN
SW801	OPEN/CLOSE	OFF
SW802	DISPLAY	OFF
SW803	SEARCH REVERSE	OFF
SW804	CONTINUE	OFF
SW805	SHUFFLE	OFF
SW806	SEARCH FORWARD	OFF
SW807	PROGRAM	OFF
SW808	AMS REVERSE	OFF
SW809	AMS FORWARD	OFF
SW810	CHECK	OFF
SW812	CLEAR	OFF
SW813	REPEAT	OFF
SW814	PAUSE	OFF
SW815	———	—
SW816	PLAY	OFF
SW817	STOP	OFF
SW901	POWER	STAND BY

Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

• Semiconductor Location

Ref. No.	Location
D101	G-7
D801	J-8
D802	J-9
D803	J-9
D901	D-7
D902	D-7
D903	C-8
D904	C-8
D905	B-8
D906	B-6
D907	J-7
D951	H-3
IC101	E-6
IC201	G-5
IC202	H-7
IC203	I-6
IC301	E-3
IC302	E-4
IC351	D-2
IC352	C-3
IC401	D-4
IC501	B-4
IC551	C-5
IC801	I-4
IC802	H-10
IC901	C-6
IC902	B-6
Q101	F-7
Q201	G-4
Q202	G-4
Q301	I-4
Q401	C-5
Q402	C-5
Q501	B-5
Q502	B-5
Q801	H-5
Q901	C-6
Q902	C-6
Q903	C-6
Q904	C-6
Q951	H-2
Q952	B-2
Q953	B-2


【MAIN BOARD】
【POWER TRANSFORMER BOARD】
【POWER SW BOARD】
【SL/SP MOTOR BOARD】
【MOTOR BOARD】
【REMOCON BOARD】
【HEADPHONE SW BOARD】
(OPTICAL PICKUP BLOCK KSS-150A)
LINE OUT
AC IN
PLATE BOTTOM EARTH
T901 POWER TRANSFORMER
* NOT REPLACEABLE : BULT IN TRANSFORMER
SW901 POWER ON STANDBY
M101 SLED MOTOR
SW401 LIMIT SWITCH
M102 SPINDLE MOTOR
M601 LOADING MOTOR
SW601 LOADING IN/OUT SWITCH
J451 HEADPHONES
FLD801 DISPLAY PANEL ,LIQUID CRYSTAL
DISC
SHUFFLE
SPACE
STEP
RMS
REPEAT
A-B
OVER
REPEAT
CLEAR
CHECK
CONTINUE
SHUFFLE
PROGRAM
DISPLAY
OPEN/CLOSE

1 2 3 4 5 6 7 8 9 10 11 12

【SL/SP MOTOR BOARD】

【MOTOR BOARD】

【MAIN BOARD】

FLD801
DISPLAY PANEL, LIQUID CRYSTAL

DISC
SHUFFLE SPACE RMS REPEAT 1 A-B OVER
STEP
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

OPTICAL PICK UP BLOCK (KSS-150A)

LOADING IN/OUT SWITCH
M601 LOADING MOTOR
SW601
OUT←IN
C601 0.022
SW101A LIMIT SWITCH
M102 SPINDLE MOTOR
M101 SLED MOTOR
CNJ101A
C101A 0.0022
C102A 0.0022
FOCUS COIL
TRACKING COIL
LASER DIODE
WHT
GRY
YEL
RED
CNJ702
CNJ701
CNJ202
CNJ201
(+30V)

IC202
FOCUS/
TRACKING COIL
SLED MOTOR DRIVE

IC203
LOADING/
SPINDLE
MOTOR DRIVE

Q801
45V
SWITCH
Q801 DTC144ES

260nSEC
6V
0V

IC801
DISPLAY CONTROL

RESET
TEST
AUTO PAUSE
TIMER
AF. ADJ
PLL SW
8G
7G
6G
5G
4G
3G
2G
1G
GND
OSCO
OSCI
LOAD IN
LOAD OUT
EPS/OUT SW
LO ON
IN SW
KEY 5
KEY 4
KEY 3
KEY 2
KEY 1
KEY 0
FOK
GFS
SQ CLK
SUB Q
D.MUTE
A.MUTE
ADJ
LINE.TEST
SCOR
RM.IN
SYNC IN
SENSE
PAUSE SYNC
REC-M SYNC
XLT
SDATA/DATA
CLK
DIRC
VDD
IC801 MSC4458

X801 4M
CLOSE:4.8
OPEN:4.8
OPEN:0

PROGRAM
REPEAT
OPEN/CLOSE
CHECK
CLEAR
SHUFFLE
CONTINUE
DISPLAY

95nSEC
3.2V
1.5V
95nSEC
3.6V
1.3V
PLAY:
5V
0V
PLAY:
550μSEC
5V
2.4V

IC201
FOCUS/TRACI
SLED SERVO

Q201
Q202
PLL SWIT

Q301
SWITCH

RV104
RV101
FOCUS BIAS
RF BALANCE
RV102
TRACKING GAIN
RV201
RF PLL FREQUENCY

IC201 CXA1825

IC301
DIGITAL SIGNAL
PROCESSOR/
CLV SERVO

IC301 CXB1125

22μSEC
5Vp-p
0V

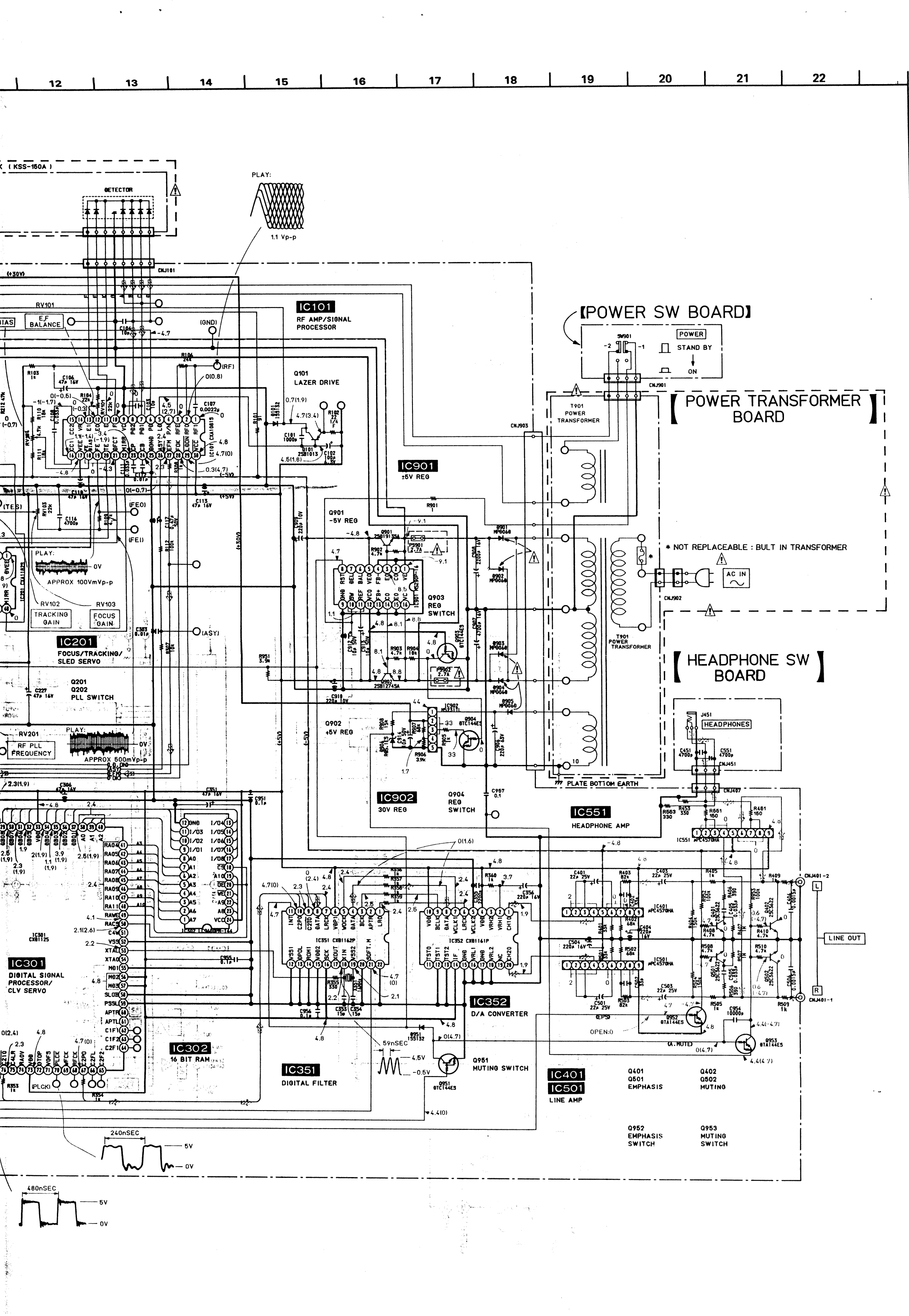
480nSEC

【REMOCON BOARD】

IC802
REMOCON DETECTOR

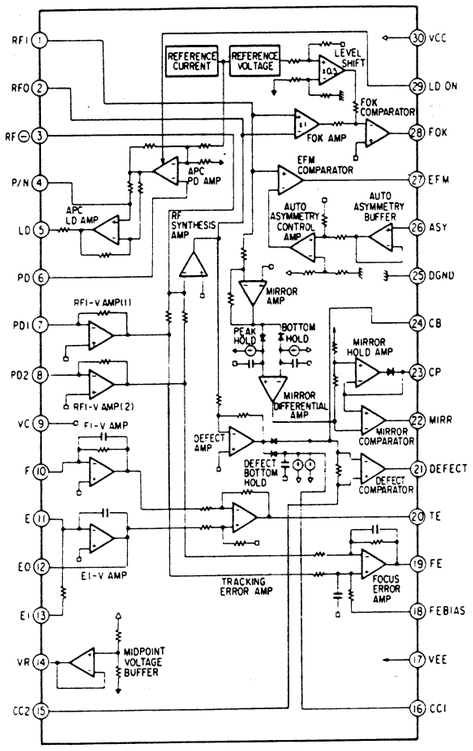
IC802 BP-1U52

CNJ801

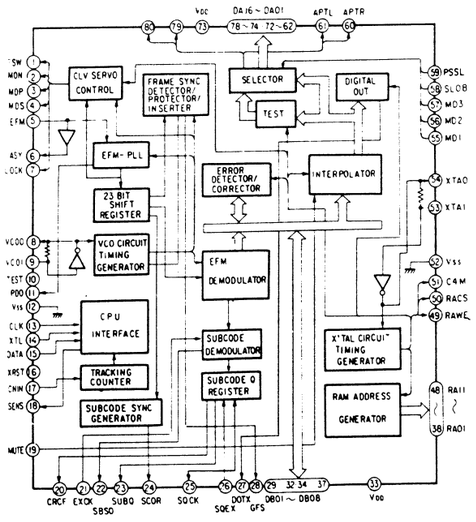

12
13
14
15
16
17
18
19
20
21
22
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
(KSS-160A)
DETECTOR
PLAY:
1.1 Vp-p
CNJ101
(+30V)
RV101
E,F BALANCE
IC101
RF AMP/SIGNAL PROCESSOR
(GND)
(RF)
Q101
LAZER DRIVE
【POWER SW BOARD】
SW901
POWER
STAND BY
ON
CNJ901
T901 POWER TRANSFORMER
【 POWER TRANSFORMER BOARD 】
CNJ903
IC901
±5V REG
Q901
-5V REG
Q903
REG SWITCH
* NOT REPLACEABLE : BULT IN TRANSFORMER
AC IN
CNJ902
【 HEADPHONE SW BOARD 】
J451
HEADPHONES
CNJ451
CNJ407
PLATE BOTTOM EARTH
IC551
HEADPHONE AMP
IC551 μPC4570HA
IC401 μPC4570HA
IC501 μPC4570HA
CNJ401-2
CNJ401-1
L
R
LINE OUT
(TES)
(FE0)
(FE1)
PLAY:
0V
APPROX 100VmVp-p
RV102
TRACKING GAIN
RV103
FOCUS GAIN
IC201
FOCUS/TRACKING/ SLED SERVO
(ASY)
Q201
Q202
PLL SWITCH
RV201
RF PLL FREQUENCY
PLAY:
0V
APPROX 500mVp-p
IC902
30V REG
Q902
+5V REG
Q904
REG SWITCH
IC352
D/A CONVERTER
IC351
DIGITAL FILTER
IC302
16 BIT RAM
IC301
DIGITAL SIGNAL PROCESSOR/ CLV SERVO
IC401
IC501
LINE AMP
Q401
Q501
EMPHASIS
Q402
Q502
MUTING
Q952
EMPHASIS SWITCH
Q953
MUTING SWITCH
Q951
MUTING SWITCH
OPEN:0
(EPS)
(A.MUTE)
240nSEC
5V
0V
480nSEC
5V
0V
59nSEC
4.6V
-0.6V

• IC BLOCK DIAGRAMS

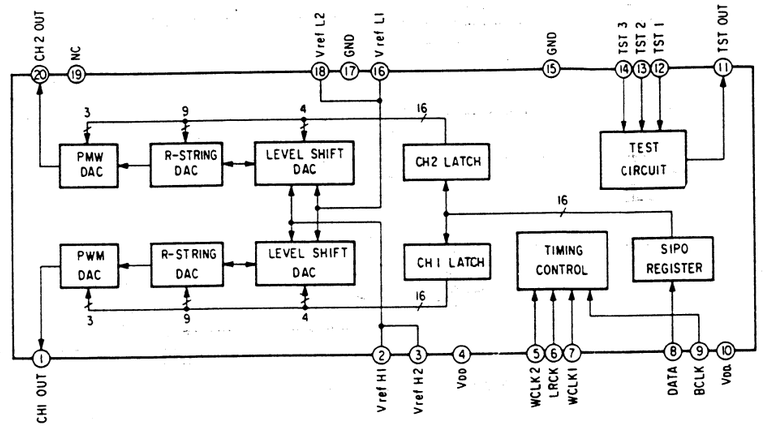
IC101 CXA1081S



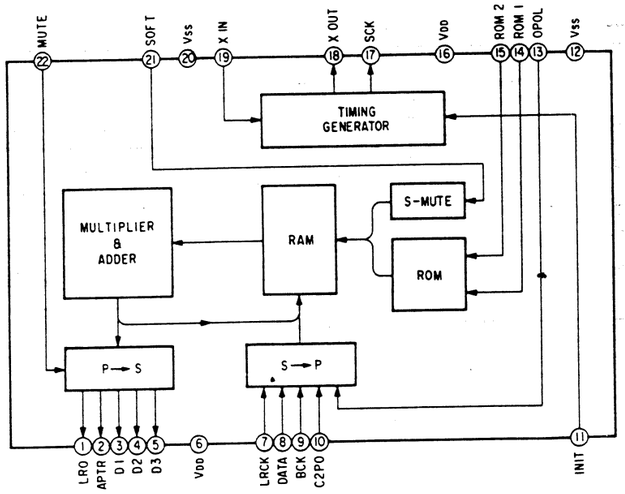
IC301 CXD1125Q



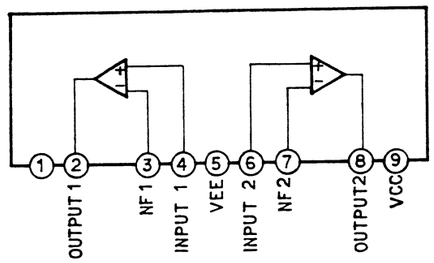
IC352 CXD1161P-2



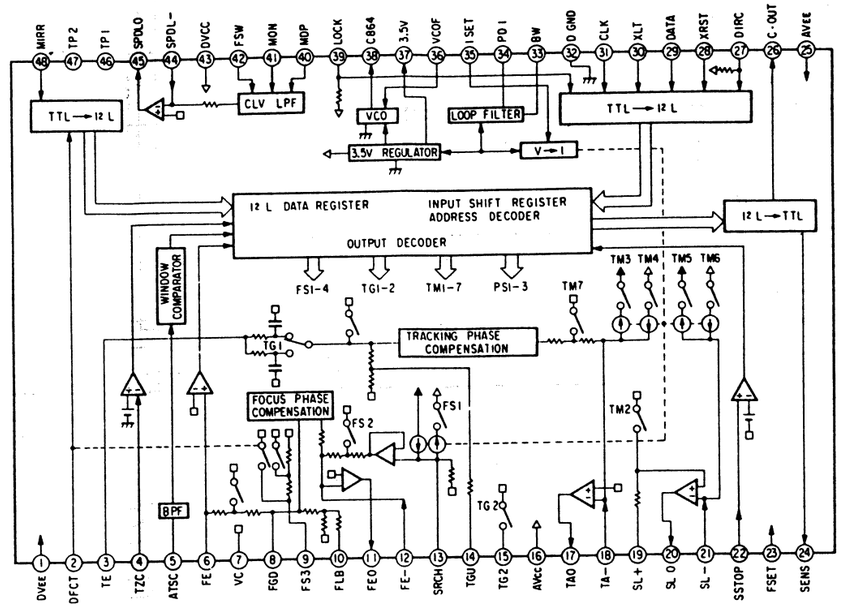
IC351 CXD1162P



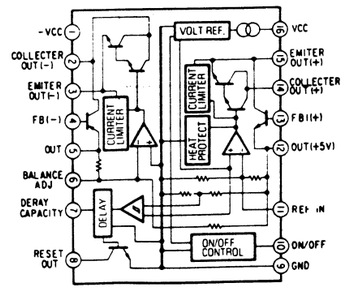
IC401, 501, 551 μPC4750HA



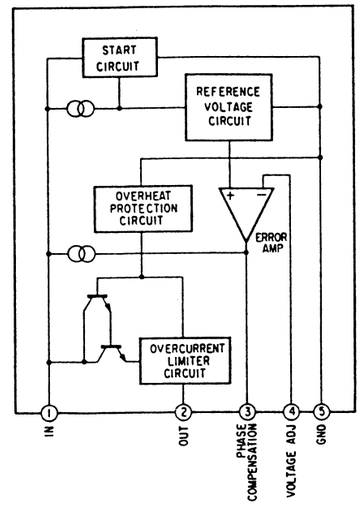
IC201 CXA1182S



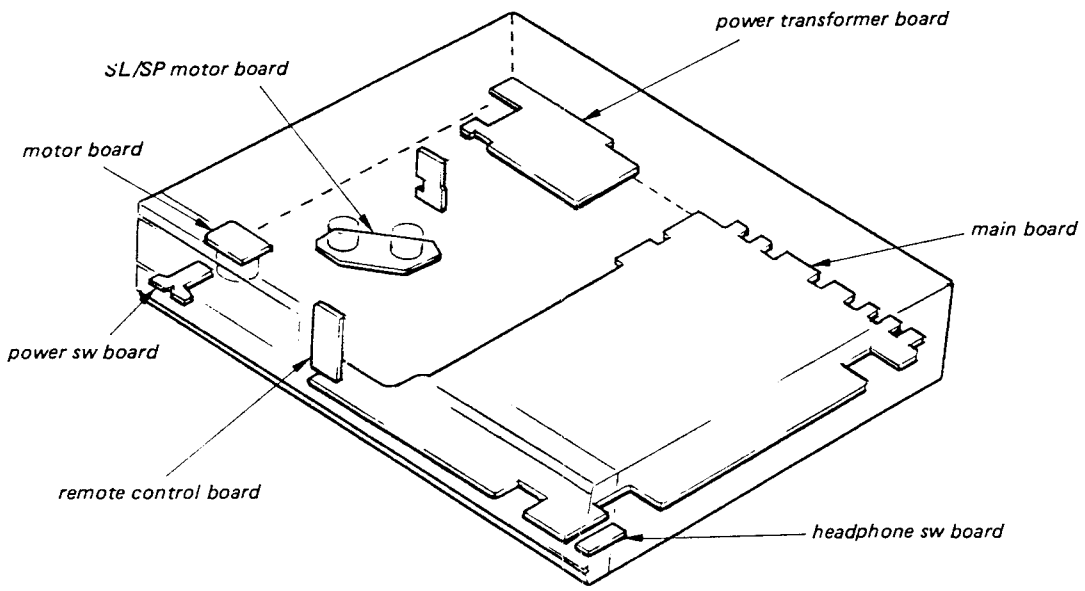
IC901 M5290-16



IC902 M5231TL



• CIRCUIT BOARDS LOCATION



ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μF, PF: μμF.

RESISTORS
- All resistors are in ohms.
- F: nonflammable

COILS
- MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No	Part No.	Description			
901	*1-623-668-11	PC BOARD, POWER SW			
902	*A-4675-221-A	HEADPHONE ASSY			
903	*A-4651-147-A	MOUNTED PCB, MAIN			
904	*1-620-603-11	PC BOARD, MOTOR			
905	*1-620-097-11	PC BOARD, SL/SP MOTOR			
906 ⚠	8-848-062-01	PICKUP, OPTICS KSS-150A			
907	*1-597-061-11	PC BOARD, REMOTE CONTROL			
908	*1-597-061-11	PC BOARD, POWER TRANSFORMER			
		CAPACITOR			
C101A	1-106-351-00	MYLAR	0.0022MF	5%	50V
C101	1-162-294-31	CERAMIC	0.001MF	10%	50V
C102A	1-106-351-00	MYLAR	0.0022MF	5%	50V
C102	1-124-443-00	ELECT	100MF	20%	6.3V
C103	1-162-199-31	CERAMIC	10PF	5%	50V
C104	1-162-199-31	CERAMIC	10PF	5%	50V
C106	1-124-477-11	ELECT	47MF	20%	16V
C107	1-161-375-00	CERAMIC	0.0022MF	30%	16V
C108	1-130-489-00	MYLAR	0.033MF	5%	50V
C110	1-124-477-11	ELECT	47MF	20%	16V
C111	1-130-489-00	MYLAR	0.033MF	5%	50V
C112	1-161-379-00	CERAMIC	0.01MF	30%	16V
C113	1-124-477-11	ELECT	47MF	20%	16V
C115	1-161-375-00	CERAMIC	0.0022MF	30%	16V
C116	1-161-377-00	CERAMIC	0.0047MF	30%	16V
C117	1-124-902-00	ELECT	0.47MF	20%	50V
C208	1-108-611-00	MYLAR	0.22MF	5%	50V
C212	1-124-477-11	ELECT	47MF	20%	16V
C213	1-124-477-11	ELECT	47MF	20%	16V
C215	1-123-875-11	ELECT	10MF	20%	50V
C217	1-130-495-00	MYLAR	0.1MF	5%	50V
C218	1-123-382-00	ELECT	3.3MF	20%	50V
C219	1-130-489-00	MYLAR	0.033MF	5%	50V
C220	1-130-495-00	MYLAR	0.1MF	5%	50V
C221	1-161-377-00	CERAMIC	0.0047MF	30%	16V
C222	1-124-499-11	ELECT	1MF	20%	50V
C223	1-124-927-11	ELECT	4.7MF	20%	50V
C224	1-124-477-11	ELECT	47MF	20%	16V
C225	1-162-294-31	CERAMIC	0.001MF	10%	50V
C226	1-162-282-31	CERAMIC	100PF	10%	50V
C227	1-124-477-11	ELECT	47MF	20%	16V
C231	1-124-477-11	ELECT	47MF	20%	16V
C233	1-161-379-00	CERAMIC	0.01MF	30%	16V
C303	1-161-379-00	CERAMIC	0.01MF	30%	16V
C304	1-124-902-00	ELECT	0.47MF	20%	50V
C305	1-130-489-00	MYLAR	0.033MF	5%	50V
C306	1-124-477-11	ELECT	47MF	20%	16V
C351	1-124-477-11	ELECT	47MF	20%	16V
C353	1-162-203-31	CERAMIC	15PF	5%	50V
C354	1-162-203-31	CERAMIC	15PF	5%	50V
C355	1-161-375-00	CERAMIC	0.0022MF	30%	16V
C356	1-124-120-11	ELECT	220MF	20%	16V

Ref.No	Part No.	Description			
C401	1-126-233-11	ELECT	22MF	20%	25V
C402	1-162-211-31	CERAMIC	33PF	5%	50V
C403	1-126-233-11	ELECT	22MF	20%	25V
C404	1-124-120-11	ELECT	220MF	20%	16V
C405	1-130-489-00	MYLAR	0.033MF	5%	50V
C406	1-106-347-00	MYLAR	0.0015MF	5%	50V
C451	1-161-377-00	CERAMIC	0.0047MF	30%	16V
C501	1-126-233-11	ELECT	22MF	20%	25V
C502	1-162-211-31	CERAMIC	33PF	5%	50V
C503	1-126-233-11	ELECT	22MF	20%	25V
C504	1-124-120-11	ELECT	220MF	20%	16V
C505	1-130-489-00	MYLAR	0.033MF	5%	50V
C506	1-106-347-00	MYLAR	0.0015MF	5%	50V
C551	1-161-377-00	CERAMIC	0.0047MF	30%	16V
C601	1-108-242-00	MYLAR	0.022MF	10%	50V
C801	1-124-477-11	ELECT	47MF	20%	16V
C802	1-162-210-31	CERAMIC	30PF	5%	50V
C803	1-162-210-31	CERAMIC	30PF	5%	50V
C804	1-124-499-11	ELECT	1MF	20%	50V
C805	1-123-875-11	ELECT	10MF	20%	50V
C906	1-124-919-11	ELECT	220MF	20%	63V
C907	1-124-898-11	ELECT	4700MF	20%	16V
C908	1-124-556-11	ELECT	2200MF	20%	16V
C909	1-126-176-11	ELECT	220MF	20%	10V
C910	1-126-176-11	ELECT	220MF	20%	10V
C912	1-123-875-11	ELECT	10MF	20%	50V
C913	1-123-875-11	ELECT	10MF	20%	50V
C914	1-123-875-11	ELECT	10MF	20%	50V
C951	1-161-772-11	CERAMIC	0.1MF	10%	25V
C952	1-124-499-11	ELECT	1MF	20%	50V
C953	1-124-499-11	ELECT	1MF	20%	50V
C954	1-161-379-00	CERAMIC	0.01MF	30%	16V
C955	1-161-772-11	CERAMIC	0.1MF	10%	25V
C956	1-161-772-11	CERAMIC	0.1MF	10%	25V
C957	1-161-772-11	CERAMIC	0.1MF	10%	25V

CNJ101A	*1-564-720-11	PIN, CONNECTOR (SMALL TYPE) 4P
CNJ101	*1-564-724-11	PIN, CONNECTOR (SMALL TYPE) 8P
CNJ201	*1-564-724-31	PIN, CONNECTOR (SMALL TYPE) 8P
CNJ202	*1-564-720-11	PIN, CONNECTOR (SMALL TYPE) 4P
CNJ401	*1-562-999-21	JACK, PIN 2P (LINE OUT)
CNJ407	*1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P
CNJ451	*1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P
CNJ701	*1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P
CNJ702	*1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P
CNJ801	*1-566-165-11	CONNECTOR, BOARD TO BOARD 3P
CNJ901	*1-564-720-11	PIN, CONNECTOR (SMALL TYPE) 4P
CNJ902 ⚠	1-526-931-11	INLET, AC
CNJ903	*1-564-725-11	PIN, CONNECTOR (SMALL TYPE) 9P
D101	8-719-940-76	DIODE 1SS132
D801	8-719-940-76	DIODE 1SS132
D802	8-719-940-76	DIODE 1SS132

Ref.No	Part No.	Description
D803	8-719-940-76	DIODE 1SS132
D901 ⚠	8-719-200-77	DIODE 10E2N
D902 ⚠	8-719-200-77	DIODE 10E2N
D903 ⚠	8-719-200-77	DIODE 10E2N
D904 ⚠	8-719-200-77	DIODE 10E2N
D905 ⚠	8-719-200-77	DIODE 10E2N
D906	8-719-106-83	DIODE RD5.1ES-B
D907	8-719-109-95	DIODE RD6.8ES-B
D951	8-719-940-76	DIODE 1SS132
FLD801	1-519-440-11	INDICATOR TUBE, FLUORESCENT
H1	*4-922-613-01	HOLDER
IC101	8-752-031-80	IC CXA1081S
IC201	8-752-032-33	IC CXA1182S
IC202	8-759-805-18	IC LA6520
IC203	8-759-208-96	IC TA8406P
IC301	8-759-947-02	IC CXD1125Q
IC302	8-752-320-44	IC CXK 5816M-10L
IC351	8-759-946-62	IC CXD1162P
IC352	8-759-805-35	IC CXD1161P-2
IC401	8-759-112-93	IC UPC4570HA
IC501	8-759-112-93	IC UPC4570HA
IC551	8-759-112-93	IC UPC4570HA
IC801	8-759-972-48	IC MSC6458-23SS
IC802	8-749-920-03	IC GP1U52
IC901	8-759-630-21	IC M5290P-16
IC902	8-759-605-43	IC M5231TL
J451	1-566-936-51	JACK, LARGE TYPE (HEAD PHONES)
M101	X-4917-504-1	MOTOR ASSY (SLED MOTOR)
M102	X-4917-523-1	BASE (OUTSERT) ASSY (SPINDLE MOTOR)
M061	A-4608-330-A	MOTOR ASSY
PS901 ⚠	1-532-686-00	LINK, IC
PS902 ⚠	1-532-686-00	LINK, IC
Q101	8-729-801-83	TRANSISTOR 2SB1013
Q201	8-729-806-28	TRANSISTOR 2SC3402
Q202	8-729-806-38	TRANSISTOR 2SC3399
Q301	8-729-806-38	TRANSISTOR 2SC3399
Q401	8-729-107-98	TRANSISTOR 2SC3622A-L
Q402	8-729-107-98	TRANSISTOR 2SC3622A-L
Q501	8-729-107-98	TRANSISTOR 2SC3622A-L
Q502	8-729-107-98	TRANSISTOR 2SC3622A-L
Q801	8-729-806-38	TRANSISTOR 2SC3399
Q901	8-729-808-76	TRANSISTOR 2SD1913SA-Q
Q902	8-729-808-72	TRANSISTOR 2SB1274SA-Q
Q903	8-729-806-38	TRANSISTOR 2SC3399
Q904	8-729-806-38	TRANSISTOR 2SC3399
Q951	8-729-806-38	TRANSISTOR 2SC3399
Q952	8-729-806-20	TRANSISTOR 2SA1345
Q953	8-729-806-20	TRANSISTOR 2SA1345
		RESISTOR
R101	1-215-396-00	CARBON 91 5% 1/4W
R102	1-249-397-11	CARBON 22 5% 1/4W
R103	1-249-417-11	CARBON 1K 5% 1/4W
R104	1-249-433-11	CARBON 22K 5% 1/4W
R106	1-247-864-11	CARBON 24K 5% 1/4W
R108	1-249-425-11	CARBON 4.7K 5% 1/4W
R109	1-249-425-11	CARBON 4.7K 5% 1/4W
R110	1-249-432-11	CARBON 18K 5% 1/4W
R111	1-249-432-11	CARBON 18K 5% 1/4W
R112	1-249-441-11	CARBON 100K 5% 1/4W
R211	1-249-439-11	CARBON 68K 5% 1/4W

Ref.No	Part No.	Description			
R212	1-249-437-11	CARBON	47K	5%	1/4W
R213	1-249-429-11	CARBON	10K	5%	1/4W
R214	1-249-424-11	CARBON	3.9K	5%	1/4W
R215	1-249-425-11	CARBON	4.7K	5%	1/4W
R217	1-249-438-11	CARBON	56K	5%	1/4W
R219	1-249-424-11	CARBON	3.9K	5%	1/4W
R222	1-247-882-11	CARBON	130K	5%	1/4W
R228	1-215-486-00	CARBON	510K	5%	1/4W
R229	1-249-435-11	CARBON	33K	5%	1/4W
R230	1-247-889-00	CARBON	270K	5%	1/4W
R231	1-215-464-00	CARBON	62K	5%	1/4W
R232	1-249-429-11	CARBON	10K	5%	1/4W
R233	1-249-414-11	CARBON	560	5%	1/4W
R234	1-215-469-00	METAL	100K	1%	1/6W
R235	1-215-434-00	METAL	3.6K	1%	1/6W
R236	1-249-433-11	CARBON	22K	5%	1/4W
R237	1-249-441-11	CARBON	100K	5%	1/4W
R238	1-249-417-11	CARBON	1K	5%	1/4W
R302	1-249-429-11	CARBON	10K	5%	1/4W
R303	1-215-469-00	METAL	100K	1%	1/6W
R304	1-215-469-00	METAL	100K	1%	1/6W
R305	1-249-429-11	CARBON	10K	5%	1/4W
R306	1-249-441-11	CARBON	100K	5%	1/4W
R307	1-249-429-11	CARBON	10K	5%	1/4W
R308	1-249-417-11	CARBON	1K	5%	1/4W
R309	1-249-433-11	CARBON	22K	5%	1/4W
R310	1-247-903-00	CARBON	1M	5%	1/4W
R318	1-249-381-11	CARBON	1	5%	1/4W
R351	1-249-417-11	CARBON	1K	5%	1/4W
R352	1-249-417-11	CARBON	1K	5%	1/4W
R353	1-249-417-11	CARBON	1K	5%	1/4W
R354	1-249-417-11	CARBON	1K	5%	1/4W
R355	1-249-411-11	CARBON	330	5%	1/4W
R356	1-249-417-11	CARBON	1K	5%	1/4W
R357	1-249-417-11	CARBON	1K	5%	1/4W
R358	1-249-417-11	CARBON	1K	5%	1/4W
R359	1-249-417-11	CARBON	1K	5%	1/4W
R360	1-249-417-11	CARBON	1K	5%	1/4W
R401	1-249-435-11	CARBON	33K	5%	1/4W
R402	1-249-439-11	CARBON	68K	5%	1/4W
R403	1-249-440-11	CARBON	82K	5%	1/4W
R404	1-247-883-00	CARBON	150K	5%	1/4W
R405	1-249-417-11	CARBON	1K	5%	1/4W
R406	1-249-412-11	CARBON	390	5%	1/4W
R407	1-247-903-00	CARBON	1M	5%	1/4W
R408	1-249-425-11	CARBON	4.7K	5%	1/4W
R409	1-249-417-11	CARBON	1K	5%	1/4W
R410	1-249-425-11	CARBON	4.7K	5%	1/4W
R451	1-249-407-11	CARBON	150	5%	1/4W
R453	1-249-411-11	CARBON	330	5%	1/4W
R501	1-249-435-11	CARBON	33K	5%	1/4W
R502	1-249-439-11	CARBON	68K	5%	1/4W
R503	1-249-440-11	CARBON	82K	5%	1/4W
R504	1-247-883-00	CARBON	150K	5%	1/4W
R505	1-249-417-11	CARBON	1K	5%	1/4W
R506	1-249-412-11	CARBON	390	5%	1/4W
R507	1-247-903-00	CARBON	1M	5%	1/4W
R508	1-249-425-11	CARBON	4.7K	5%	1/4W
R509	1-249-417-11	CARBON	1K	5%	1/4W
R510	1-249-425-11	CARBON	4.7K	5%	1/4W
R551	1-249-407-11	CARBON	150	5%	1/4W
R553	1-249-411-11	CARBON	330	5%	1/4W
R701	1-249-441-11	CARBON	100K	5%	1/4W
R702	1-249-441-11	CARBON	100K	5%	1/4W
R703	1-249-441-11	CARBON	100K	5%	1/4W

Ref.No	Part No.	Description			
R704	1-249-440-11	CARBON	82K	5%	1/4W
R705	1-249-381-11	CARBON	1	5%	1/4W
R801	1-249-425-11	CARBON	4.7K	5%	1/4W
R802	1-249-425-11	CARBON	4.7K	5%	1/4W
R803	1-249-425-11	CARBON	4.7K	5%	1/4W
R804	1-249-425-11	CARBON	4.7K	5%	1/4W
R805	1-249-425-11	CARBON	4.7K	5%	1/4W
R806	1-249-425-11	CARBON	4.7K	5%	1/4W
R807	1-249-425-11	CARBON	4.7K	5%	1/4W
R808	1-249-425-11	CARBON	4.7K	5%	1/4W
R901	1-249-381-11	CARBON	1	5%	1/4W
R902	1-249-425-11	CARBON	4.7K	5%	1/4W
R903	1-249-425-11	CARBON	4.7K	5%	1/4W
R904	1-249-429-11	CARBON	10K	5%	1/4W
R905	1-249-417-11	CARBON	1K	5%	1/4W
R906	1-249-424-11	CARBON	3.9K	5%	1/4W
R907	1-249-439-11	CARBON	68K	5%	1/4W
R908	1-249-431-11	CARBON	15K	5%	1/4W
R951	1-249-424-11	CARBON	3.9K	5%	1/4W
R952	1-249-441-11	CARBON	100K	5%	1/4W
R953	1-249-441-11	CARBON	100K	5%	1/4W
RV101	1-228-995-00	RES, ADJ, CARBON 22K (E-F BALANCE)			
RV102	1-228-995-00	RES, ADJ, CARBON 22K (TRACKING GAIN)			
RV103	1-228-995-00	RES, ADJ, CARBON 22K (FOCUS GAIN)			
RV104	1-228-993-00	RES, ADJ, CARBON 4.7K (FOCUS BIAS)			
RV201	1-237-953-11	RES, ADJ, METAL GRAZE 1K (RF PLL)			
SW101A	1-570-822-11	SWITCH, LEAF (LIMIT)			
SW401	1-570-822-11	SWITCH, LEAF (LIMIT)			
SW601	1-570-203-11	SWITCH, LEAF (LOADING)			
SW801	1-571-088-00	SWITCH, KEY BOARD (1 KEY) (OPEN/CLOSE)			
SW802	1-554-088-00	SWITCH, KEY BOARD (4 KEY) (DISPLAY)			
SW803	1-571-214-11	SWITCH, KEY BOARD (4 KEY) (SEARCH REVERSE)			
SW804	1-571-214-11	SWITCH, KEY BOARD (4 KEY) (CONTINUE)			
SW805	1-571-214-11	SWITCH, KEY BOARD (4 KEY) (SHUFFLE)			
SW806	1-571-214-11	SWITCH, KEY BOARD (4 KEY) (SEARCH FORWARD)			
SW807	1-571-214-11	SWITCH, KEY BOARD (4 KEY) (PFOGRAM)			
SW808	1-571-214-11	SWITCH, KEY BOARD (4 KEY) (AMS REVERSE)			
SW809	1-571-214-11	SWITCH, KEY BOARD (4 KEY) (AMS FORWARD)			
SW810	1-571-214-11	SWITCH, KEY BOARD (4 KEY) (CHECK)			
SW812	1-571-213-11	SWITCH, KEY BOARD (3 KEY) (CLEAR)			
SW813	1-571-213-11	SWITCH, KEY BOARD (3 KEY) (REPEAT)			
SW814	1-571-213-11	SWITCH, KEY BOARD (3 KEY) (PAUSE)			
SW815	1-554-213-11	SWITCH, KEY BOARD (3 KEY)			
SW816	1-554-213-11	SWITCH, KEY BOARD (3 KEY) (PLAY)			
SW817	1-571-213-11	SWITCH, KEY BOARD (3 KEY) (STOP)			
SW901	1-552-928-11	SWITCH (POWER)			
T901	⚠1-449-025-11	TRANSFORMER, POWER			
X351	1-567-908-11	VIBRATOR, CRYSTAL (16MHz)			
X801	1-567-192-11	OSCILLATOR, CERAMIC (4MHz)			

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SONY
SERVICE MANUAL

AEP Model
UK Model

CORRECTION-1

File this correction with the service manual.

Page 18

	INCORRECT			CORRECT		
IC5	8-759-805-29	IC	CXD1161P-1	8-759-805-35	IC	CXD1161P-2

9-952-974-91

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